SANGĪTA-RATNĀKARA

ŚĀRNGADEVA —

Sanskrit Text and English Translation with Comments and Notes

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Vol. I TREATMENT OF SVARA

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English Translation by Dr. R. K. SHRINGY, M.A., Ph.D.

Under the Supervision of Dr. (Miss) PREM LATA SHARMA



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PREFACE

I was inspired to undertake the present project of translating Sangitaratnakara into English by two factors viz. the inadequacy of the available English translation of the 1st chapter by C. Kunhan Raja, and the education and training that I received from Dr. (Miss) Premlata Sharma, Head of the Department of Musicology, Banaras Hindu University, while I was her student for Diploma in Music Appreciation during 1967-69. Even though the textual study of Sangitaratnākara was not, strictly speaking, a part of the curriculum, she was kind and generous enough to recognise the special position of some of the students, who were also the members of the staff of the department, and to extend to them the benefit of her wide learning and research experience by way of Initiating them into the art of interpreting original Sanskrit texts on music with the help of available commentaries, and luckily I was one of them. So, even though I had been working as Research Assistant in the Department of Musicology and in the College of Music & Fine Arts prior to the formation of the department in 1966, for about ten years or so, Sanskrit texts on music could become meaningful to and enjoyable for me only after I could avail of this opportunity of learning the intricacies, the technicalities and the symbolism of the language of Sangita-sastra from Dr. Sharma. Hence, the need for a music-oriented, topic-wise, technically precise English translation of Sangita-ratnäkara written in a flowing prose style unhindered by frequent Sanskrit interjections and accompanied by an elaborate and lucid commentary, was felt by me not as a scholar of Sanskrit but as a student of Musicology. A detailed note on the method and the manner of the translation has been written separately pointing out the peculiarities of the execution of the work.

In 1970, the University Grants Commission introduced a scheme of writing university level books and monographs, and I took the earliest opportunity of putting forth a proposal of writing an English translation of Sangita-ratnākara in three parts related to music (i. e. excluding the chapter on dancing) under the expert guidance and supervision of Dr. (Miss) Prem Lata Sharma who readily agreed to sponsor the proposal. And the U. G. C. too was kind and gracious enough to grant me a Research Fellowship for three years to undertake this project.

I am happy to say that as the result of the combined efforts of the U.G.C., which provided me the material means to pursue my researches and writing unhindered, the authorities of the Banaras Hindu University who granted me leave to work on the project, and Dr. Prem Lata Sharma who has very affectionately, very carefully and very meticulously nursed the whole product, and Messrs. Motilal Banarsidass, who readily agreed to publish this work, it has become possible for me to present this first volume comprising Chapter I related to the treatment of *svara*, in the service of the learned scholars and the learning students; and I hope it will be found to be of greater help in understanding Särngadeva, whose work Sangita-ratnākara is a landmark in the history of Sangita-śāstra.

Though the translation was originally planned and written out with an elaborate commentary and critical as well as literary annotations with a view to making it selfsufficient, it has been considered necessary, convenient and useful to give the Sanskrit text as well along with it. This was considered necessary firstly because the translation is presented in a topic-wise order dealing with homogeneous ideas and concepts in convenient paragraphs in order to make the reading more intelligible and easy to grasp, and secondly because it was found unavoidable to modify some of the readings of the text as published by the Adyar Library in view of the technical accuracy of the readings available in the Anandāśrama edition or other comparable texts like Sahatarāja of Rānā Kumbha and so on. Thus, the Sanskrit text has also been partly re-edited in so far as the arrangement of some of the verses has been modified to correspond with the paragraphs as arranged in the translation and also in so far as some modifications have also been made in the text here and there, though very sparingly.

The present project envisages the translation of six out of the seven chapters of Sangita-ratnākara divided as follows :

Volume I : Chapter I Volume II : Chapters II to IV Volume III : Chapters V & VI

I am happy to disclose that the Ms. of Vol. II is also almost ready. It will not be before long that it is presented for publication, while work on Volume III as well is in progress.

It is not for me to say that the task of translating Sangita-ratnākara (Vol. I), that I had set to myself quite unwittingly in my enthusiasm for doing something worthwhile, could hardly be accomplished by me single-handed, since it not only demands great proficiency in Sanskrit and English languages but also an insight into the musical concepts of Sangita-sästra, and besides the publication of such a work naturally involves co-operation of many able workers. I am, therefore, greatly indebted to my seniors and friends who have lovingly rendered every possible help in bringing the work up to the mark, though here I can make notable mention only of those few but for whose contribution this work could not have been published in its present form.

I do not find any words indeed to adequately acknowledge the contribution of Dr. (Miss) Premlata Sharma under whose expert advice and able supervision the whole work has been executed and who, out of her love for learning, voluntarily offered to write an introduction to the translation. In fact, whatever I have been able to do is primarily because of her, since without her initiation and continued co-operation, nothing could have been finally accomplished. I am also greatly thankful to Mr. N. Ramanathan, Research Scholar of the Deptt. of Musicology, B. H. U. and presently, Lecturer in Musicology, Indirā Sangīta Vishvavidyālaya, Khairagarh, who has been kind enough to go through my press-copy including the index, and has offered many valuable comments and suggestions to improve the translation in its form and content. He has also been kind enough to go through the printed file and much of the credit for the preparation of errata goes to him.

Since Sangita-ratnākara incorporates a chapter on human embodiment (Pindotpatti), which indeed is a unique feature of Sarngadeva's work, (and he could possibly attempt it because he was himself a medical man as stated by him), special care has been taken in preparing the translation and the commentary as well as the notes of this chapter; and I am extremely grateful to Prof. Priyavrata Sharma, Head of the Deptt. of Dravyaguna in the Instt. of Medical Sciences, B. H. U., who has been kind enough to go through the Ms. of the whole chapter and suggest some technical modifications. I am also thankful to Dr. K. C. Gangrade, formerly Reader in Anatomy in the Institute of Medical Sciences and presently Reader in Sitar in the Department of Instrumental Music, B. H. U., who has also been kind enough to glance through this chapter and to offer some technical suggestions for the improvement of the draft translation.

My thanks are due to Shri Ritwik Sanyal, a research scholar of the Deptt. of Musicology, for assisting in the preparation of the Press-copy of the Ms. Many thanks are due to Shri Gopal Lal Bhatt and Pandit Maheshwar Jha, Assistants of the Research Section of the Deptt. of Musicology for assisting in proof-reading and the preparation of the Śloka-index respectively. Also I am thankful to Shri Kapildeo Giri for assisting in writing the Ms. of the Sanskrit text and Shri Chhannulal, Senior Clerk of the Deptt. for typing the Ms. and the Press-copy of the work neatly. I am also thankful to Shmt. Vimla Musalgaonkar, the Sanskrit teacher of the Deptt. of Musicology, for her constant moral support and encouragement in the accomplishment of the difficult task.

Above all, I am grateful to the University Grants Commission for granting a Research Fellowship for this project and thus providing the initial impetus to this publication.

Our thanks are also due to the publishers of this book, Motilal Banarsidass for readily accepting the work of publication and for seeing it through the press expeditiously. Last but not the least, I am thankful to Tara Printing Works, Varanasi, for providing every facility for printing the work in the desired manner and in a short period of time.

Dated 17.11.1977 Deptt. of Musicology, Banaras Hindu University, Varanasi—221005

R. K. Shringy

A NOTE ON TRANSLATION

The present English translation of Sangita-rainākara of Śārngadeva is based on the Adyar edition of the Sanskrit text published by the Adyar Library and Research Centre of the Theosophical Society, Madras in 1943. The text has almost entirely been adopted from that edition excepting a few places where the readings were not found to be technically significant and relevant to the context, and where sometimes the readings of the Anandāshrama (Poona) edition (edited by Shri Mangesh Ramakrishna Telanga) are found to be more meaningful; though, that edition has been referred to only in very exceptional cases only and not as a general rule. Apart from these two editions of Sangita-rainākara no other edition or Ms. has been consulted in preparing this translation, probably because it was not considered within the scope of a translator's work to do so.

When the project of translating this monumental work of Sangita-sästra was taken up in 1972, there were quite a few translations available in English, Hindi, Telugu, Kannada and so on, most of them fragmentary. However, even though they were available, none of them was noticed by the author till the first draft of the work was nearly completed so far as this volume is concerned. But by and by the following works were noticed.

• :

- (i) Sangita-ratnākara (Part—I), Hindi translation by Shri Laksminarayana Garg, Sangita-kāryālaya Hathras, 1964 (consists of Chapter I only)
- (ii) Telugu translation of the first chapter with that of Kallinātha's commentary in an appendix, by Gandam Sri Ramamurti published by the Sangīt Nāţak Akademi, Andhra Pradesh, Kalā Bhawan, Hyderabad-4, in 1966.
- (iii) Kannada translation of the first three sections of Chapter—I with a commentary (also in Kannada)

called Nihśańka-hrdaya by Prof. R. Sathyanarayana, published by Prasaranga, Mysore University, 1968.

- (iv) English translation of Chapter I by C. Kunhan Raja from Adyar Library, Madras, 1945.
- (v) English translation of Chapter VII on Dancing by K. Kunjunni Raja and Radha Burnier, first published in Vol. XXIII parts 3 & 4 of Adyar Library Bulletin, Brahma Vidya, 1959. This has been reprinted in 1976.

Excepting C. Kunhan Raja's English translation, no other work could possibly be consulted by the author (i. e. the present translator). It has been beneficial to consult this translation since some of the charts have been adopted from it with some modification. Another work published in 1975 was noticed as under.

(vi) Marathi translation of chapters I to IV along with the translation of Kallinātha's commentary by G. H. Tarlekar published by Maharastra Rajya Sahitya Sanskriti Mandal, Bombay-32 in 1975.

The author of this work plans to complete the Marathi translation of the entire Sangita-ratnākara in his 2nd and 3rd Volumes on which he is presently working. Any other translations of this work, if available, have not yet been noticed.

The present English translation is executed in quite a different manner. First of all, the translation does not follow the traditional *śloka*-wise order, rather it is presented in convenient paragraphs that naturally comprehend a complete idea or expound it conceptually. The *śloka*-wise translations may be suitable for literature but so far as technical works, as this, are concerned, they hardly make any clear and lucid presentation so that, more often than not, the subject matter is either confused or distorted. Therefore, in order to make the translation more intelligible to the modern intellect, the entire work has been further classified into many subdivisions according to the different topics. Thus, it is probably for the first time that the Sanskrit text as well as its English translation are being presented in the modern literary format. Accordingly the Sanskrit text has also been provided with suitable headings and sub-headings.

The general order of presentation is such that the text in Sanskrit is immediately followed by translation which in its turn is followed by the comments, and the comments are followed by notes, all of which run concurrently as far as possible. The substance of the two Sanskrit commentaries of Kallinätha and Simhabhūpāla as printed in the Adyar edition of Sanglia-rainakara has generally been incorporated in comments as much as it has been found possible in consonance with the modern style of presentation. However, the purpose of writing the comments is not merely to represent all that is useful in the Sanskrit commentaries, but to make the translation and the subject matter of the text easily intelligible and accessible to an average reader of a musicological text. The comments, in other words, actually constitute a running commentary on the text, comprehending most of the developments in the field since the Sanskrit commentaries were written. The notes are written mostly on the English rendering of the text and are more of a literary nature, while the comments are generally more concerned with the technical exposition of the subject matter.

The Sloka-s of the text have been divided into four parts called a, b, c & d, roughly representing the four quarters of a verse, and since the translation presented here follows a topic-wise arrangement, the paragraph and other topic headings are indicated in terms of *Śloka* numbers suffixed with a, b, c and d (as the case may be) to cover the entire range of the topic or the paragraph. (ix)

While writing Sanskrit words in Roman script, international diacritical marks are applied. These symbols are indicated here in a separate transliteration code.

With regards to translating technical terms from Sanskrit to English, as a matter of principle, every effort has been made to translate or to give English equivalents whenever possible, but exception is made with respect to certain concepts that have no parallel in Western music e. g. grāma, *mūrcchanā*, *tāla* and so on, that are retained in their original form. However, even in such cases, an approximate English equivalent has been provided into brackets, at least for the first time, if not every time the word is used, e. g. *jāti* (melodic type). Sometimes the English equivalents are thought to be unconventional, and in such cases the original Sanskrit terms are similarly provided into parenthesis e. g. tonepattern (*varna*). This policy has been executed as far as it has been possible to do so intelligently.

The translation presented here is quite authentic, as near in interpretation to the original text as the English idiom makes it possible. Even though a *sloka*-wise presentation is not made, every paragraph is truly represented by the verse Nos. indicated at the end of the paras, while the range of the topic is indicated by the verse Nos. at the end of the topic-headings. The words that have been supplied due to gramatical necessity of the English expression have generally been put into brackets, so much so that expository or complementary phrases implied in the original text are also similarly indicated. However, every care has been taken not to make the translation too literal, at the cost of presentable diction, lucidity of expression, or technical meaning. Plurals made out of Skt. words are distinctly indicated by a hyphen e.g. grāma-s. So, in short an attempt has been made to present a faithful, authentic, liberal and a clear English translation of the original Sanskrit text couched in a language that can be easily understood by the students as well as the scholars of sangita-sästra alike.

The translation is accompanied by three appendices for different specialists; and also a glossary-cum-index is provided wherin the various technical terms are very briefly elucidated. A half verse line index too is added to provide a guide to the text.

It is hoped that this work will prove to be a useful aid to those scholars and students who are not so well conversant with Sanskrit as to approach the text directly.

TRANSLITERATION CODE

Devanāgarī script	Roman script
1. Vowels :	
(a) shortम इ उ ऋ ज्	a, i, u, ŗ, lŗ
(b) long —आ ई क	ä, 1, ū,
(c) dipthongs-ए ऐ को को	e, ai, o, au
(d) anusvāra— - & visarga-:	n & h
2. Consonants :	
(i) Gutturals—क् स् ग् प् इ	k, kh, g, gh, n
(ii) Palatals च् छ् ज् स् व्	c, ch, j, jh, ñ
(iii) Lingualsद्र्ट्ट्	t, th, d, dh, n
(iv) Dentals- त् य् द् ष् न्	t, th, d, dh, n
(v) Labials— ९ ए द् म् म्	p, ph, b, bh, m
Semivowels— य्र्स्	y, r, l, v
Sibilants— ण् प् स्	ś, ş, s
Sonant aspirate—ह	h
Metrical symbols :	Tonal symbols :
(i) laghu—I short	Şadja sa Madhyama ma
(ii) guru —S long	<i>Ŗşabha</i> ri <i>Pañcama</i> pa
(iii) pluta-S prolonged	Gāndhāra ga Dhaivata dha
or elongated	<i>Nişāda</i> ni

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LIST OF ABBREVIATIONS.

Abh. Bh.	Abhinava-bhāratī, Abhinavagupta's commentary on N. S.		
Ad. ed.	Adyar edition of Sangila-rainakara		
Bh. G.	Bhagavadgitā		
Br. D.	Byhaddest of Matanga		
Caraka	Caraka samhitā		
Chap.	Chapter		
Eng.	English		
Eng. trans. M. Ghosh	English translation of N. S. by Shri Manmohan Ghosh		
G. O. S.	Gayakwad Oriental Series, Baroda		
I. M. J.	Indian Music Journal		
J. R. A. S.	Journal of Royal Asiatic Society		
'K'	Kallinātha		
Kashi or K ed.	Kashi or K ed. Kashi (Chowkhambha) edition of N. S.		
К. К.	Kavirāj Kunjala Bhishagratna, the English translator of Suśruta		
K. R.	Kunhan Raja, author of the Eng. translation of S. R. Chapt. I published from Adyar, Madras.		
Lit.	Literally.		
N. S.	Natyalastra of Bharata		
N , S., G. O. S.	Nayya-śastra, Gayakwad Oriental Series, Baroda Edition		
P. L. S.	Dr. (Miss) Prem Lata Sharma		
Rv.	Rgveda		
'S'	Simhabhupala		
Skt.	Sanskrit		
s. R.	Sangita-rainākara of Šārugadeva		
S. Raj	Sangsta-rāja of Rāņā Kumbhā		
Suśruta	Sulruta Samhita		
Tr.	Translation		

*For the translation.

INTRODUCTION

I. Prefatory Remarks

If one were to name a single text of Sangita-sästra which embodies the earlier tradition (laksana, body of terms and concepts) in remarkable detail and at the same time incorporates contemporary developments, which has been constantly referred to in musical and literary texts in the subsequent centuries, which has been commented upon profusely¹, which has not only been looked upon with awe and reverence, but has also occasionally been the target of reproach born of frustration, which wielded great influence over later tradition, one would undoubtedly name the Sangita-ratnākara (hereafter referred to as S. R.) of Śārngadeva.

S. R. has been known as saptādhyāyi² on the model of Pāņini's Aşţādhyāyi and has for at least six centuries symbolised the ancient tradition of lakşana. Earlier texts do not appear to have been directly studied by most of the auhtors of lakşana in the subsequent centuries. Keen interest in the direct studies of earlier works like Bharata's Nāţyaśāstra, Dattila's Dattilam, Matanga's Bşhaddeśi, Abhinavagupta's Abhinavabhārati, Someśvara's Mānasollāsa and Nānyadeva's Bharatabhāşya, has emerged only in the latter half of the 20th. century and S. R. has served as a constant frame of reference in this study. Hence S. R. has re-emerged as a landmark in Sangita-śāstra, illuminating its ancient and medieval tradition like a Dehali-pradīpa³.

- 1. The latest commentary, 'Setu' of Gaugarama was composed as recently as the 19th century.
- 2. cf. S. Sud, p. 152 sl. 407. Sahasras (a compilation, made in the 17th. century of *dhrupad* texts ascribed to Bakshoo of the 15th. century), song-text no. 188, 400, 479, 958.
- 3. A lamp on the threshold of a room illuminating both inside and outside.

2. Date and Identity of the Author

Śārngadeva introduces himself as belonging to a family which hailed from Kashmir. <u>Kashmir</u> is the glorious land of Sanskrit learning that dominated for centuries the various branches of study; the land that gave birth to a versatile genius like Abhinavagupta preceded by a host of commentators⁴ on N.S. and Ānandavardhana, Mātrgupta, Mammața etc. Śārngadeva must have inherited from his father and grandfather the rich tradition of various disciplines. He must also have been acquainted with the *laks ya* of Kashmir indirectly and with that of the Deccan, where the family settled, directly. In a way the entire *sāstra* (source of theoretical knowledge) and *sampradāya* (practical tradition) of the earlier periods must have been accessible to him.

In Deccan, the family lived under the patronage of the Yādava dynasty at Devagiri (present Daulatabad).³ This dynasty was formally established by King Bhillama in 1145 A. D. It is during his reign that Śārngadeva's grandfather Bhāskara appears to have shifted from Kashmir to Devagiri. One wonders what could have prompted Bhāskara to leave his motherland and move to a distant foreign region. Was it the political persecution which forced him to flee and seek refuge in the other end of the land? Or was it the special patronage extended by the prince of a distant land to him because of his fame that attracted him to the Yādava court ? P. V. Sharma feels that although there is no conclusive evidence, it may be that the King of Devagiri, impressed by Bhāskara's scholarship in *Ayurveda*, invited him to his court as

- 1. Their works are lost today.
- 2. Sources for the historical details are :--
 - (a) Bhāratīya Vidyābhavan's The History and Culture of the Indian People, Vol. V.
 - (b) Sārúgadeva's own account regarding his genealogy and other details in the first prakaraņa of the first chapter of S. R.
 - (c) P. V. Sharma's paper in Hindi-"Yadava Kings, the Great Patrons of Ayurveda in the Medieval Times."

a royal physician. Besides, Bhāskara's son Sodhala was also appointed the Accountant General (Śrikaraŋāgraŋi) in King Bhillama's court.

King Bhillama died in 1193 A. D. His son Jaitrapāla or Jaitugi ascended the throne and ruled for a short period. He was succedeed by Singhana in 1200 A. D. who was not only a very powerful king but also a great patron of arts, Jiterature, and science. It is during his reign that Sarngadeva who continued in his father's (Sodhala's) post as the Royal Accountant, seems to have composed his works. Having had great scholars for his ancestors, Sarngadeva's heredity must have provided him with a very rich 'samskāra-punja' (cultural heritage) combining the northern or north-western and southern traditions in learning and arts. Along with his study of Sangita he appears to have carried on the family profession of Ayurveda. He had also written a book on Ayurveda entitled 'Adhyātmaviveka' to which he bimself refers.¹ This work is not available. Besides this and (S. R. no other work of Sarngadeva is known.

Sarngadeva refers to himself as one who has removed distress of the Brahmins through gifts of large wealth, of those desirous of learning through knowledge, and of the sick through medicines⁸.

धनदानेन विप्राणामाति संहृत्य शाश्वतीम् । जिज्ञासूनां च विद्याभिगंदार्तानां रसायनेः ।।

This verse in a way sums up the three facets of Särngadeva's life viz. the accountant, the scholar, and the physician.

Some of the verses⁸ in the introductory Section of S. R. giving an account of the genealogy seem to be lavishing praises on the author himself and his ancestors which to a modern reader may appear immodest. But that was, however, part of the culture of his period and was not regarded improper then. On the other hand, the verses at the conclusion of the work³ are full of humility and modesty.

3. Patronage of Äyurveda in Yādava Dynasty

Scholarship in Ayurveda was confined not only to Särngadeva's family. History reveals a host of Ayurvedic scholars who lived under the patronage of the Yādava Kings. Furthermore, these scholars were also intimately connected with Sārngadeva's family, for many of them were students of Bhāskara, Sārngadeva's grandfather. In fact it is only through the works of some of these scholars that we come to know of Bhāskara as a great name in Ayurveda; Sarngadeva himself does not give any clear indication P. V. Sharma has ably brought out in his paper², the role of the Yādava Kings in the promotion of Ayurveda and the contribution of Bhāskara and other scholars.

Nāgārjuna, the author of *Yogaratnamālā* commences his work with a salutation to his guru Bhāskara. Keśava, in the concluding verses of his work *Siddhamantra*, describes himself as the disciple of Bhāskara in *Āyurveda* and as the recipient of Simharāja's (Singhaņa's) patronage. Though Bhāskara himself lived during King Bhillama's reign, his students continued upto King Singhaņa's reign. It is the reign of King Singhaņa which seems to have been the golden period in which not only *Āyurveda* but also all the arts and literature flourished. Many of the Ayurvedic preparations were named after Singhaņa, e. g. Singhaņa-cūrņa Singhaņa himself seems to have had knowledge of *Âyurveda* since a few of the preparations are credited to him.

Sodhala, the author of two works on Ayurveda—Gadanigraha and Sodhalanighanțu, might be the same Sodhala mention-

^{1.} S. R. 1,2,119.

^{2.} ibid. 1,1,12cd-13ab.

S. ibid. 1,1, 2-14.

^{1.} ibid. 7, 1672-1678.

^{2.} See footnote 2. (c) on p. xiii. regarding P. V, Sharma's paper.

ed by Śārńgadeva as his father.¹ He also lived in the time of Sińghaņa. Since Śārńgadeva mentions the names of the Yādava Kings only upto Siňghaņa, it appears that he too compiled his works *Adhyātmaviveka* and S. R., during the reign of King Siňghaņa.

Singhaņa's death saw some scuffle between the descendants for the throne. The Yādava rule itself lasted only 70 years after Singhaņa died, after which the Muslims took over. In this period Kṛṣṇa, Mahādeva, and Rāmacandra were the successors to the throne. Bopadeva, another illustrious figure in the Yādava rule lived in this period. He was the son of Keśava, the author of Siddhamantra. Bopadeva was a versatile genius and had to his credit a number of books on such diverse subjects as, Sāhitya, Vyākaraņa, Āyurveda, Jyotişa, Bhāgavata, including a commentary, 'Prakāśa' on his father's work 'Siddhamantra'. His contemporary and a close friend was Hemādri who was the chief minister during this period; he too was a great scholar of Āyurveda and had several books and commentaries to his credit

Thus we see that the Yādava rule in the Deccan patronised eminent scholars from various fields and in particular from Ayurveda. Some of the rulers themselves, we have seen, were adepts in Ayurveda and other subjects. All this gives us a picture of the time, place and the environment in which Sārngadeva lived and produced his monumental work.

4. Various Editions of S. R.

hu Canateshava Pandava

Three printed editions of S. R. have been published till now.

(i) The earliest edition of S. R. was brought out in 1879 by Kälivara Vedäntavägīśa and Śāradā Prasāda Ghosa from Calcutta. This was printed at the New Arya Press, Calcutta. This volume contained only the Svarādhyāya and is accompanied by the commentary of Simhabhūpāla.¹

Since we have not had access to this edition, we cannot say whether this is a critical one or not.

(ii) In 1896, S. R. was published in the Anandāśrama Series (No. 35). Edited by Mangesh Ramakrishna Telanga, this was brought out in two volumes. The second volume appeared in 1897. The first volume consisted of the chapters I to V. The remaining two chapters comprised the second volume. Kallinātha's commentary to the entire text accompanied this edition. Thus, this is the first printed edition incorporating the full text of S. R.. This is a critical edition in so far as the various available manuscripts and the reading of the commentator have been collated.

(ii) The Adyar Library and Research Centre, Madras, has brought out the latest edition of S. R. The entire text along with the two commentaries of Kallinātha and Simhabhūpāla is edited by Pandit S. Subrahmanya Sastri and is published in four volumes. The first volume contains the first chapter; the second volume—the second, the third and the fourth chapters; the third volume—the fifth and the sixth chapters; and the fourth volume—the seventh chapter. The first volume appeared in 1943 and the last one in 1953, while the second volume was revised by Pandit V. Krishnamacharya and published again in 1959.

Even though Kunhan Raja² in his introduction to the first volume, states that both the earlier editions of S. R. and other manuscripts have been compared in the preparation of the Adyar edition, it fails to be a critical one. Variant readings, excepting those found in the commentary of Simhabhūpāla have not been indicated.

There is however, an element of doubt regarding the two Sodhalas being identical, for Sodhala of the Ayurveda-nighanțu mentions his Gotra as Vatsa whereas Śārngadeva belongs to the Vijagana Gotra. See introduction to Gada-nigraha edited

^{1.} See p. vi, Kunhan Raja's introduction to S. R. Vol. I, Adyar ed.

^{2.} p. vii Kunhan Raia's introduction to S. R. vol. I. Advar ed.

5. Commentaries on S. R.

S. R. is the only work on Sangitaiastra that has to its credit more than one commentary. The editors of the Calcutta edition are reported¹ to speak of seven commentaries, of which four are in Sanskrit, one in Hindi and two in Telugu. M. Krishnamachariar in his 'History of Classical Sanskrit Literature', also mentions seven commentaries. The authors for six are mentioned as Simhabhūpāla, Keśava, Kallinätha, Hamsabhupäla, Kumbhakarna and Gangārāma.^a Of these, the commentaries of only Simhabhūpāla, Kallinätha and Gangārāma are available today. Reference to the commentary of Kesava is also found in S. Sud.⁸ M. Krishnamachariar mentions the name of this commentary as Kaustubha.⁴ 'Hamsabhūpāla' seems to be a mistake for 'Simhabhūpāla'⁵. The name of the seventh commentary is Candrika but the author is not known.⁶ No details regarding the Candrika commentary or the commentary attributed to Kumbhakarna are known.

(i) Simhabhūpāla's Sangītasudhākara is the earliest commentary and is seldom critical; it almost paraphrases the text. In the introductory verses, Simhabhūpāla explaining the need for such a commentary, stated :

(a) The whole system of music expounded by Bharata and others had been shattered before the advent of Śārngadeva and it was Śārngadeva who consolidated and now he (Simha'bhūpāla) himself is trying to make it understandable, out of consideration for the people.⁷

- 2. History of Classical Sanskrit Literature, p. 853.
- 3. S. Sud., p. 15², sl. 408.
- 4. History of Classical Sanskrit Literature, p. 853.
- 5. Kunhan Raja's Introduction to S. R. Vol. I, p. xi.
- 6. History of Classical Sanskrit Literature, p. 853.
- 7. Introductory sl, 5-7 of Sinhabhupala's commentary on S. R.
 - p. 6,

- (b) The text of S. R. is profound (gambhira) and complex (visama) and is intelligible to very few persons; he alone is competent to write a commentary on it.¹
- (c) It is difficult for one to be adept at both *lakş ya* and *lakşaŋa* and hence this commentary (which relates *lakşaŋa* to *lakş ya*) is nothing short of an original work.²

(ii) Kallinātha's commentary 'Kalānidhi' is somewhat critical. Valuable references to contemporaneous practice are found in the rāga chapter. At the same time he leaves many sections uncommented, implying either that the sections are irrelevant or are too clear to need any commentary; however. what may have been clear enough to him is seldom so to the present day scholar.

Kallinātha also refers to himself as lakşya-lakşaņa-kovida (well-versed). He claims that he has tried to reconcile lakşya and lakşaņa and remove the contradictions (virodha).⁸

It is obvious that both Simhabhūpāla and Kallinātha feel that it is a big responsibility to connect the laksaņa of S. R. with their contemporary laksya. This appears to be a subtle way of indicating the cleavage, that had become conspicuous in their time, between the two. Though they have tried their best to reconcile the cleavage, it becomes more obvious by the time of Rāmāmātya, the author of Svara-mela-kalānidhi.

Some pertinent questions arise in connection with Kallinātha and his commentary.

(a) In the chapter on rāga, Kallinātha cites a number of examples from the practice (laksya) of his time to bring out the non-conformity of the contemporary

3. Kallinātha's introductory verses to his commentary on S. R. sl. 13-14.

I. ibid. p. x.

^{1.} ibid. sl. 11.

^{2.} ibid. sl. 12.

lakş)a to the lakşana of the grāma-rāga-s etc. described in S. R.¹ In this context it is strange that he does not refer to Vidyāraņya² whose system of *mela-s* had already been propounded. This is all the more surprising since Vidyāraņya too had belonged to the same Vijayanagaram empire of which Kallinātha was a citizen.

- (b) Rāmakrsņa Kavi in his Bharata Koša states that Rāmāmātya is the grandson (dauhitra) of Kallinātha.⁸ One does not know the source from which Srī Kavi obtained this information, but it is very curious that Rāmāmātya does not refer to Kallinātha at all in his entire work. Again, while Kallinātha frequently asserts his familiarity with the musical tradition handed down by Bharata, Matanga, Śārngadeva etc., i. e., the knowledge of the 'sampradāya'⁴, Rāmāmātya seems to reveal a lack of understanding of Śārngadeva's work and his svara system in particular. Students of history of music wonder how within the time of Kallinātha and Rāmāmātya the tradition of S. R. became unfamiliar.
- (c) Equally strange is the fact that the author of S. Sud. should find Vidyāraņya accessible but Kallinātha obscure.⁵

(iii) Kumbhakarna is now established as the author of Sangltaräja. It is indeed strange that Kumbhakarna should have been noticed as a commentator of S. R. Sangltaräja is an independent work, the scope of which is larger than

- 1. K. on S. R., 2. 2. 159-160, vol. II, p. 114-116 (Revised edition)
- 2. Vidyāraņya is the author of Saugītasāra, known to be the first work on *mela*-system and which is no more available.

- 4. cf. K on S. R. 1, 4, 15ab-16, vol. I, p. 108; K on S. R. 5.237-238 vol. III, p. 135 ln. 12.13.
- 5. S. Sud., p. 152.

that of S. R. in some respects. However, the bulk of its contents is an elaboration of S. R. and hence it may be called a commentary in an informal sense. It is, however, not known on what source this reference was based.

4. A manuscript of Gangārāma's Hindi commentary 'Sangīta-setu' is deposited in the library of the palace of the former Prince of Kashi, in Ramnagar, Varanasi.¹ The work is more of a translation, though some independent observations or explanations of the commentator are found here and there². Indication of the verse or group of verses forming a unit of translation is also given with the initial word (*pratīka*), e. g., *Brahmeti* for the opening verse of the work.

The order of Vādyādhyāya and Nartanādhyāya having been reversed, the commentary ends with the Vādyādhyāya^{*}. The last colophon reads :

इति श्री महाराजाधिराज श्री महाराजा श्री राजा वहादुर सीतारामचंद्र कृपापात्राधिकारी विश्वनाथ सिंह जू देव तदाज्ञा-प्रयुक्त-श्रीमाथुरकुलमणि तुलारामगर्भ-समुद्भूत-गंगाराम-क्रूत-संगीतसेतो वाद्याध्यायः षष्ठः (सप्तमः ?) समाप्तिमगभत् तदेतद्विदुषां प्रीतये भूयात् ।।

संवत् १९०२ के साल मिती भाद्रवदी ५ समाप्त्यः ॥

श्री नृपमणो विसुनाथ तव मोद हेत सुख पाइ । लाला दोलत लिखत वाद्याध्याय बनाइ ॥

The colophon gives the following information :---

- (a) The date of the work is Samvat 1903, i. e., 1903-57 = 1846 A. D.
- 1. A transcript of the same has been prepared by the Research Section of the Department of Musicology, B. H. U.
- 2. There is reference to Kenopanisad in the commentary to S. R. 1. 2, verse 18-20

'Andhata' is explained as that which is not the product of an attack or striking anywhere.

In the context of Sadharana there are references to Sangliaparijata and Naradiyasikga

3. This could have been the mistake of the copyist,

^{3.} Bharata Kosa, p. 550.

- (b) Visvanath Singh is the name of the commentator's patron, obviously the prince of Rewan, who was a great scholar and patron of literature and arts.
- (c) The author hails from Mathura.
- (d) The language of the commentary is Brajabhāşā.
- (e) The scribe appears to be Lala Daulat.

Critical approach seems to be wanting in this commentary. There appears to have been no attempt to interpret the concepts in the light of current practice.

6. General Scheme and Style of the Work

(a) Objective :---Śārngadeva states the following four reasons for writing S. R.¹

- (i) Akhilalokānām tāpatrayajihīrşayā—to liberate everyone from the three kinds of pain, ādhibhautika (physical), ādhyātmika (psychological), and ādhidaivika (natural calamities).
- (ii) Śaśvatāya-dharmāya—to uphold the eternal dharma (virtue).
- (iii) Kirtyai-for obtaining fame.
- (iv) nihśreyasāptaye—for achieving liberation.

(b) Scheme :--S. R. is devoted to the delineation of sangita--a composite of gita, vādya and nytta. Śārngadeva has consolidated and arranged in seven chapters the exposition of the entire sangita. Six chapters are devoted to music and the last one to dance. Music, independent of drama, had apparently become crystallised by the time of Śārnga-deva.

Following is the list of the various chapters and their contents. Since the present volume of the translation includes only the first chapter, the others will be discussed in the introduction to the respective volumes.

(xxiii)

CHAPTER I : SVARAGATĀDHYĀYA

. The first chapter is confined to the treatment of *swara*, i. e., the tonal aspect. It is further divided into eight sections (*prakaraŋa-s*). They are :

(i) Padärthasangraha prakarana :—Genealogy of the author, the ancient authorities (*ācārya-s*) to whom the author is indebted, and table of contents.

(ii) *Piņdotpatti-prakaraņa*: Genesis of the human body combining the Vedāntic, Āyurvedic and Haţhayogic views.

(iii) Nāda - sthāna - śruti-svara - jāti-kula-daivata-ŗşi-cchandrasa-prakaraņa : Nādopāsanā, the production of nāda in the human body according to Śikṣā·s; 22 śruti-s; sāraņā•; svara and its definition; śruti-jāti-s* : names of 22 śruti-s•; śuddhavikŗta svara-s; association of animal-cries with svara-s; four kinds of svara-s--vādi-samvādi-vivādi-anuvādi; assignment¹ of kula, varņa (caste), varņa (colour), janmabhūmi (birthplace), ŗşi (seers), devatā (gods), chandas (metres) and rasa (sentiments) to svara-s.

(iv) Grāma-mūrcchanā-krama-tāna prakaraņa: Three grāma-s; mūrcchanā-s; krama-s; śuddha-tāna-s; kūţa-tānv-s; prastāra; khaņdameru and the mode of computing nasta and uddista; names of śuddha-tāna-s

(v) Sādhāraņa-prakaraņa: svara-sādhāraņa; its sour varieties—kākalī, antara, şadja, madhyama—and the process of obtaining the 12 vikīta svara-s; jāti-sādhāraņa.

(vi) Varņa-alankāra-prakaraņa : four varņa-s; alankāra-s.

The number of *alankāra-s* in S. R. is more than those mentioned in earlier treatises. However in S. R. the term *alankāra* has a restricted usage and refers only to the melodic moțif, whereas in N. S. the term comprehended 'kampa' also.

 marked on topics implies that either the author provides the first available record of the respective tradition or has his own way of treatment.

^{1.} S. R. 1. 1. 13cd-14.

^{1.} This body of laksana combines the influence of vedic and tantric tradition.

(xxv)

(xxiv)

By Sārngadeva's time kampa and its varietes had acquired the name gamaka.

(vii) Jati-prakaraņa : Suddhā-jati-s; vikītā-jāti-s; vikītāsamsargajā-jāti-s; characteristics (lakšaņa) of iāti-s; treatment of individual jāti-s and their respective prastāra-s.

One may ask why $j\bar{a}t\bar{i}$ -s should have been treated in the chapter on svara while treatment of $r\bar{a}ga$ has been taken up in a separate chapter. This is because $r\bar{a}ga$ had become fully developed by the time of Sārngadeva and its large number demanded a separate chapter.

(viii) Giti-prakarana : Kapāla-s and kambala; giti-s.

CHAPTER II : RĂGAVIVEKĂDHYĂYA

This chapter is divided into two prakarana-s.

(i) Grāmarāga - uparāga - rāga-bhāsā - vibhāsā - antarabhāsāviveka-prakaraņa.

(ii) Ragāngādinirņaya-prakaraņa.

CHAPTER III : PRAKIRNAKADHYAYA

Lakşana-s of vaggcyakara-s, gayana-bheda: sabda-bheda etc.; sarīta-lakşana etc.; gamaka; sthāya; ālapti.

Most of the material included in this chapter represents developments of the post-Bharata period.

CHAPTER IV : PRABANDHADHYAYA

Definition of gita and its division into gandharva and gana; constituents of prabandha; description of individual prabandha-s, guna and dosa of gita.

Prabandha-s definitely represented music independent of drama.

CHAPTER V : TALADHYAYA

Marga tāla-s; gitaka-s; deši tāla-s; pratyaya of deši tāla-s.

CHAPTER VI : VADYADHYAYA

Structure, modes of playing and the compositions pertaining to tata, susira, avanaddha, and ghana vādya-s.

S. R.'s treatment of all the vādya-s in one single chapter is a distinct departure from Bharata's scheme where the tata and susira are taken along with the chapters pertaining to svara and the others treated separately.

CHAPTER VII : NARTANĀDHYĀYA

Elements of n_{flta}; dance forms; treatment of nine rasa-s

(c) Style : Śārngadeva presents the subject in a concise and precise manner. His treatment is devoid of any 'sāstrārtha' style, i. e., there is no argumentative approach. Very rarely do we come across some sort of discussion. For instance, after describing sruti and svara, the author himself raises a doubt—"if svara-s are effected only on the 4th. (7th, 9th.....) and other sruti s, then how could the previous sruti-s, i. e., 3rd. (2nd., 1st. or 6th., 5th.) etc. be said to contribute to it (svara)?"¹ The author then answers the question himself. Similarly, while pointing out the exceptional case of paūcami jāti with regard to the observance of the rule relating to the weak notes and the sādava-auduva formations, he brings in the concepts of parisaikhyā and vidhi of the Mimānisā school of Philosophy.²

In conciseness of expression and as regards consolidation of earlier laksana, Śārngadeva can be compared with Mammata, the author of Kāvyaprakāsa.

7. Consolidation and Supplementation of lakṣaṇa from earlier and contemporary sources

Sārngadeva in the introductory section of the first chapter of S. R. lists a number of earlier authorities, the essence of whose views, he states, he is presenting in his work.⁸ A detailed and a comparative study of S. R. and the

- 3. ibid. 1. 1. 15-21ab
- . **A**

^{1.} S. R. 1. 3, 25c-27ab. 2. ibid. 1. 7. 57 cd 59ab.

earlier texts bears this out. Of the earlier authorities listed by him, works of only some are available today; they are— Bharata, Dattila, Matanga, Bhoja, Abhinavagupta, Someśvara, Nänyadeva and Jagadekamalla.

It is, however, not to be surmised that Śārngadeva has consolidated all that has been stated in the earlier works. He has been extremely judicious, discriminating, and selective in incorporating the laksana from the earlier sources. He has left out some portions from the works of Bharata and others. For instance, the entire section on dhruvā-s dealt with in N. S. has been omitted in S. R. Details regarding the reportoire of drums described by Bharata have been left out and instead we have the delineation of vādya-prabandha-s. Śārngadeva has also chosen not to include the polemic discussion on the relation between svara and śruti given in Brhaddeśi and has ignored the reference to the twelve svaramürcchanā-s mentioned in it.

We shall also state here some of the points on which Śārngadeva seems to have been influenced by the earlier writers or incomporated the current tradition of laksana laksya.

(i) Bharata and Dattila : Svara, sruti, grāma, mūrcchnā, jāti, gīti, tāla (mārga-tāla), gītaka-s.

Much of the material in the Nartanādhyāya has been based on N. S. but very little from it is reflected in the Vadyādhyāya.

(ii) Matanga : (i) Names of suddha-tāna-s.

- (ii) Viniyoga of the jāti-s, mentioning of mūrcchanā-s in them and the prastāra-s for them.
- (iii) Raga-classification and the laksana-s of individual raga-s.

(iii) Abhinavagupta : Abhinavagupta's influence on Särigadeva has been enormous. Mostly the influence has been very subtle but sometimes it becomes obvious also. Unlike in the case of other sources the influence is not so much in terms of information but in terms of elucidation of concepts. For instance, Sārngadeva's definition of svara¹ is clearly seen to be based on that of Abhinavagupta.

(iv) Someśvara: Some of the topics dealt with in the prakirnaka chapter could have been taken from the Gitavinoda section of Mānasollāsa. e. g. gamaka-s, guņa and doşa of musicians.

(v) Nänyadeva: The verbal texts accompanying the *jāti-prastāra-s*, details of *Kapāla-gāna-s* etc. are for the first time seen in *Bharatabhāşya*. Thus it could have been the source for Śārngadeva.

(vi) Contemporary tradition of laksana-both written and oral.

Information on *sthāya-s* and *gamaka-s* must have also been obtained from some contemporary oral tradition. We come across certain *deśt* names in the *sthāya-s*. Contemporary works like *Sangītasamayasāra* of Pārśvadeva also list these names. So these names must have been current at that time in *lakşya*.

Details of *dest tāla* s too must have come from some oral tradițion (if not from Sangitacudāmaņi of Jogadekamall).

(e) Incorporation from current laksya

In the svara chapter very little from current laksya has been incorporated. In the description of the characteristics of amisa in jāti-s Śārngadeva adds that the amisa can be its own samvādī, anuvādī etc.³, implying that rāga-s where the vādī has no samvādī (like our contemporary pūriyā, māravā and sohanī, where neither śuddha-madhyama nor paācama are present), the vādi is its own samvādī. In the description of sthāya-s and rāga-s also Śārngadeva lists some which he calls 'adhunā-prasiddha' probably indicating their use in the current laksya.

^{1.} S. R. 1, 3, 24cd-25ab.

^{2.} ibid. 1, 7, 33.

8. Constant References in and Influence on Later Literature

Very soon after it was written, S. R. appears to have attracted the attention of the scholars all over the country, and within a century the commentary (by Simhabhūpāla) on the entire work had been completed. Even in this century scholars like V.N. Bhatkhande¹ had accepted the importance of serious study of S. R. Thus almost from the time it was composed upto the present day S. R. has commanded continuous attention of scholars.

The one point on which most of the subsequent authors have cited S. R. as an authority is the importance of *lakşya* in comparison to *lakşaya*. This is understandably so because, to the scholars of the post-Śārńgadeva period who found it difficult to reconcile the widening cleavage between *lakşaya* of S. R. and the contemporary *lakşya*, the statement by Śārńgadeva himself asserting the primacy of *lakşya* was greatly welcome.³

Sometimes S. R. has also been the target of reproach for the same reason that the laksana did not satisfy the laksya of the medieval period. The author of S. Sud.⁸ found the laksana-s of rāga-s described in S. R. quite obscure and not pertaining to the rāga-s of his time. S. Sud. declares that it had to discard the delineation of rāga-s in S. R. because of their obscurity and neither did the commentaries of Keśava and Kallinātha make the delineation more accessible. In recent times too S. R. has not been spared. Pt. Omkarnath Thakur in his Sangitānjali⁴ attacks S. R.'s method of describing the catuh sāranā experiment on the grounds of its not being lucid, clear, scientific, and practical. S. R.'s approach has, however, been defended by K. C. D. Brhaspati in his Sangitacintāmani.⁵

2. cf. S. M. K., 2, 12; R. V., 1.33; Sairagacandrodaya, 10.

- 4. Sangitanjali Vol. V, p. 94.
- 5. Sangitacint amani, p. 134-148.

One aspect in which S. R.'s influence is seen to be the greatest is the scheme that some of the authors of the post-Sārngadeva period adopted in composing their treatises. Sangītadarpaņa, Sangīta-sārāmīta, Sangīta-sāra (from Jaipur), and even S. Sud. which is quite critical of S. R., follow the arrangement of the subject set by S. R. But these works are often brief and leave out many of the details given in S. R.

9. References to S. R. in non-musical texts

Many of the writers of non-musical texts have also acknowledged S. R.'s authority in music and allied subjects and have referred to it in their works. Few examples may be noted here.

(a) Jagannātha in his Rasa-gangādhara, while discussing the problem of rasa-s being eight or nine, quotes a verse from the rasa-section of the last chapter in S. R.¹ Again while explaining how the sthāyi-bhāva-s become vyabhicāribhāva-s, he quotes a verse from S. R. to support his statement.⁹ Thus it is seen that S. R.'s contribution to the treatment of rasa was noticed in the literature on poetics.

(b) Mallinātha the commentator on the play Siśupālavadha of Māgha, quotes a number of verses relating to śruti and svara from S. R.⁸

(c) Ranganātha quotes S. R. on the characteristics of rāga valantikā, in his commentary 'Prakāśikā' on Kalidāsa's play 'Vikramorvaśīyam'.⁴

Thus it is very clearly seen that S. R. had made a tremendous impact on the field of music literature and established for itself a status next only to Bharata's N. S.

- 1. Rasa-gangādhara p. 37 (quoting S. R. 7.1360)
- 2. ibid. p. 38 (quoting S. R. 7, 1519cd-1520ab)

^{1.} p. 789 Hindustani Sangit Paddhati Vol. IV. edition, Hathras.

^{3.} S. Sud. p. 152, sl. 407-409

^{3.} Mallinätha's commentary on Magha's Silupalavadha, Canto 1, sl. 10.

^{4.} Prakaśika on Vikramorvaśtyam, Act 4, sl. 25 quotes S. R. 2. 2. 147-148. S. R. however gives the name of the raga as vallata.

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10. Some Observations on Svarädhyäya and General

As stated before, this chapter is largely a consolidation and reorganisation of the *laksaya* found in the earlier texts. A few relevant points, however, have to be stated here regarding barngadeva's treatment of certain topics.

Svara-sādhāraņa : Svara-sādhāraņa as treated in S. R. is already latent in N. S. On the basis of Abhinavagupta's commentary¹, Śārngadeva has spelt it out and his 12 vikrtaspara-s are nothing but the renaming of the svara-s born out of the process of sādhāraņa.

Sadharana belongs to a context where svara-s are basically seven, Only two vikria-svara-s, antara (gandhara) and kakali (sisted) are accepted as regular notes as far as they are also fixed on any instrument, especially of the harp type.⁸ On the other hand the kaisika-sädhārana is meant only for covering the consequential changes in intervals that are not to be regularly fixed on the strings of a vina. Texts of the post-Ratnākara period equated all sādhāraņa-s, and tried to fix all the svara-s on the frets of vinā. Further, this was not in accordance with the grāma-system. Misconception on the part of later authors regarding the treatment in S. R. arose because it was wrongly surmised that both the sādhāraņas. antara and kaisika were meant to co-exist. In fact the jati-s in which the svara-sādhāraņa occurred are clearly prescribed. Moreover, when Sārngadeva lists the seven suddha-svara-s and twelve vikrta-svara-s, he is merely consolidating the laksana handed down. Unfortunately the writers of the later period seem to have been confused by the enumeration of the 19 svara-s in one sequence and thought that the svara-s should occur one after another. Consequently they tried to fix these

2. Nänyadeva states that in the Vipañci vina which had nine strings, the two extra strings were tuned to antara and kakali svara-s, cf. Bharata-bhāşya, folio 368 & 371. svara-s on the frets of the vinā. They had not apparently tried to relate the sādhāraņa prakaraņa with the enumeration of vikīta svara-s. Otherwise such confusion might not have arisen. S. R.'s description of the rāga-s too follows the same svara system and hence there too there is no need for the kaišika and other svara-s to be mentioned. Only kākalī and antara need be mentioned in rāga-s.

Jati-s: Some questions arise in connection with the delineation of jati-s in S. R.

- (i) Did jāti-s have any practical relevance when the rāga-s had emerged ?
- (ii) Each jāti, şādjī etc. was conceived as a 'class' combining different individual melodies having certain common characteristics. But we find that each jāti is illustrated at the end by means of a single prastāra. How could the tradition of specific prastāra of jāti-s be compatible with the generic nature of jāti which could be conceived as a very broad melodic entity encompassing numerous varieties? Or, is it indicative of the fact that jāti had become obsolete in Matanga's time and the prastāra-s were composed just to retain its rough outlines? These questions need to be seriously investigated.

Sārngadeva belonged to that period of Indian history when most of the disciplines, especially Sangita-sastra, were trying to consolidate the original contribution of earlier tradition. Talking of sangita-sastra in particular, the history of its texts can be divided into four periods.¹

^{1.} A. B. on N. S. 28. 34-36, p. 31-34.

^{1. &#}x27;These periods have been treated in some detail in my paper entitled "A Historical Note on Musical Research in India" presented at a seminar in M. S. University, Baroda in Nov; 77.

Period I :--Primary and Formative--2000 B. C. to 500 A. D.

Period II :- Expository and Expansive 600 A. D. to 1200 A. D.

- Period III :- Reconciliatory and Revaluative-1300 A. D. to 1750 A. D.
- Period IV :- Critical and Interpretative-1750 A. D. onwards.

Sarngadeva occupies a very important position in the second period. The basic difference in the approach of the first and the second periods is that whereas the approach of the former was direct, that is to say, laksana was evolved out of a direct study of laks ya; and intuitive knowledge and experience was communicated keeping in view the totality of human expression through sound at all levels, the approach of the latter was mainly indirect, that is to say, through laksana and only to some extent direct (taking into account laksya). It is not intended here to degrade the latter approach. But it is the laksana-oriented approach which is responsible for the separation of the composite concept of svaraśruti-grāma-mūrechanā found in N.S.. In the arrangement of topics in S. R., grāma does not appear in the same prakarana as sruti and sāranā. Again sādhārana is separated from the description of vikrta-svara-s. A serious student of today must bear this difference of approach in mind while studying the texts of the first period and those of the second.

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Prem Lata Sharma

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5. Prasīda	***	(32c-33b)	
6. Vyāvītia	***	(33c-34)	
7. Skhalita	***	(35)	
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12. Ūrmi	***	(39c-40c)	
12. Orm 13. Sama	•••	(40c-41b)	
15. Sama 14. Prenkha	•••	(41c-42b)	
	***	(42b-43a)	
15. Nişküjita	•••	(42 D- 45a) (43 b-44 a)	
16. Śyena	•••	(430-44a) (44b-45a)	
17. Krama	•••	(490-45a) (45 b-4 6b)	
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•

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Chapter I

THE TREATMENT OF SVARA

प्रथमः स्वरगताध्यायः

तत्रादिमं पदार्थंसंग्रहाख्यं प्रकरणम्

मङ्गलाचरणम्

ब्रह्मग्रन्थिजमारुतानुगतिना चित्तेन हृत्पङ्कजे सूरोणामनु रञ्जकः श्रुतिपदं योऽयं स्वयं राजते । यस्माद् ग्रामविभागवर्णरचनाऽलङ्कारजातिक्रमो वन्दे नादतनुं तमुद्धुरजगद्गीतं मुदे शङ्करम् ।।१।।

Section I

Introductory

(i) Propitiation : 1

For delight¹ do I worship Lord Siva² <u>embodied in (the</u> form of) nāda³, pre-eminently adored by the entire world, the source of order inherent in the division of domains⁴, the

1.	The author is offering his prayers without any ulterior motive,
	i. e., for the very delight that accompanies the act of worship,
	and so his prayers are immediately answered.
•	

2 The word used is Sankara, which is capable of double meaning, viz. the name of Lord Siva, and etymologically, one who causes comfort or well-being.

3. Nada is primordial sound, the manifest quality of the first of the five elements of creation, akasa (space) in its unmodified state.

4. The word <u>grama</u> is capable of double meaning, viz. the different loka-s (i. e, world-views) such as Bhūk, Bhuvah, etc., and the three basic scales—sadja-grama, madhyama-grama and gandhara-grama spoken of in ancient music.

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organisation of castes⁵ and the distinction of species⁶; who, being manifest in the heart-lotus⁷ of yogins as $ohkara^8$ in the contemplation of mind united to the movement of $prana^9$ originating from the root¹⁰ of the navel, shines in its own lustre.¹¹ (1).

Interpretation with reference to music:

I take pleasure in paying my homage to gitam¹⁸, the embodiment of *nāda*, the cause of comfort¹⁸ in the restless¹⁴ world, the source of the system comprising the division of

- 5. Varua implies the four castes, viz. Brahmana, Kşatriya, Vaisya and Sadra in which the ancient Hindu society was divided; and in the context of music it signifies types of tonal movement, viz. sthayt, archt, avarcht and sancart.
- 6. Various species of animal kingdom; in music the word (jati) stands for arche-types of ragas, viz. şadjı, arşabhı, etc. The word alankāra is taken by 'K' in combination with jati. Accordingly, this word has been bracketed with 'species' (jati) in our translation of the text, in the context of Siva. The etymological meaning of the word is alam-karoti-iti alankārah, i. e., which delineates the optimum, such as that of beauty etc. and is, therefore, also used in the sense of 'ornament or embellishment. Here it has been interpreted in the simple meaning of delineating the optimum of the species.
- 7. Httpankaja is the heart-lotus, the seat of anahata-cakra of twelve petals in the system of Kundalint-Yoga
- 8. Srutipadam is the source of Vedas, i. e. onkara and in music sruti signifies a microtone
- Prana is the vital breath spoken of as maruta (air) in the text; and the movement of prana is necessary for the articulation of sound.
- 10. Brahmagranthi is the knot in which the psychic currents of ida and pingala join with the central canal of psychic energy, viz. sujumpa, near about the root of the navel.
- 11. The supreme Being is self-luminous and cannot be enlightened by any modification of the mind. This self-luminosity of pure Being is suggestive, in the musical context, of the etymological meaning of spara.
- 12. Gitam (singing) also implies vadyam (instrumental music) and nitiam (dancing). As gitam is directly related to the process of voice-production in the body, and also because it is considered to be the main organ of sangua, it represents the entire art of music.
- 13. The etymological meaning of the word Sankara.
- 14. A free rendering of the word uddhura, meaning 'unrestrained.'

 $grama^{15}$, the composition of $varna-s^{16}$, the $alahkara-s^{17}$ and the $jati-s^{18}$, the self-manifest¹⁰ locus of $sruti-s^{20}$ that delights the masters of music in the lower³¹ register, aided by the mind attuned to the movement of prana originating from the root of the navel.

Comments:

It is customary, in the Indian tradition, /to offer worship to one's favourite god as a mark of auspiciousness and for the successful completion of the work being undertaken. Here, the author opens his mangalacarana (a benedictory verse) with the word Brahman as a mark of auspiciousness, and offers worship to Lord Siva, his istadevata (favourite god) who, incidentally, is the presiding deity of Sangita. The concept of istadenata is peculiar to Indian culture, and is akin to and seems to have its origin in, what is known as 'Henotheism' of the vedic pantheon. There are various religions, dogmas and sects who have their own supreme deity. The concept of *istadevata* implies the understanding that, although there is one God in the absolute sense, yet it is known and worshipped in a particular form and under a particular name that is relevant to a particular sect. It is also implied in the puranic mythology, to which this concept truly belongs, that whatever be the description of the supreme deity in a particular sect, the gods of other sects would be related to it in some way or the other. Thus, every Hindu is free to have his own supreme deity. Faith is, therefore, largely an individual affair. Different members of a family can and do quite often have different istadevata-s. This concept seems to be supported by the Bhagavad-gita where Lord Krspa declares :

"Whatsoever form (of the supreme deity) a devotee wishes to worship carnestly, I strengthen his faith in that deity and make it unflinching." (Bh. G. VII-21)

- 15. Grdma is a specific group of svara-s (tones), and three gramas are accepted, viz. sadja, madhyama and gandhāra.
- 16. Varna is 'type of tonal movement', the act of singing, such as sthayt etc.
- 17. Alankāra is a specific combination of svara-s.
- 18. Jali is a virtual archetype of raga, e.g. şadjī, arşabhı, etc.
- 19. Svayam rajate, suggests the etymological definition of svara, i e., the sound that is perceptible and delightful by itself.
- 20. Sruti signifies a perceptible constituent unit-factor of tone.
- 21. The heart is identified with the region of voice-production for the lower register, which implies the other two here.

2

Treatment of Svara

Incidentally this shows that, since the benedictory verse is offered to Lord Śiva, Śārńgadeva belongs to the Śaiva cult. This gives his religious orientation, though as it would be clear in the subsequent passages of the text, he seems to belong philosophically to the Bhedābheda system of Vedānta Philosophy. It is in this context that the concept of a personal God as i_{ξ} :adevatā becomes all the more significant.

Apart from serving the purpose of mangalacarana, this verse figuratively also points out the salient features or the main topics of the subject matter of this chapter. The figure of speech employed is known as samasokti by which, such qualifying words are used that are capable of double meaning and are so composed in a verse or a sentence as briefly to indicate some other purport not directly implied by the primary meaning of the words (cf. Kavyaprakaša 10.97). Hence the verse is differently interpreted above with reference to music.

(ii) ग्रन्थकृद्दंशवर्णनम्

अस्ति स्वस्तिगृहं वंशः श्रीमत्काश्मीरसंभवः । ऋषेर्वृषगणाज्जातः कीत्तिक्षालितदिङ्मुखः ।।२।। यज्वभिर्धर्मधीधुर्यैर्वेदसागरपारगैः । यो द्विजेन्द्रैरलञ्चको ब्रह्मभिर्भूगतंरिव ।।३।। तत्राभूद्भास्करप्रख्यो भास्करस्तेजसां निधिः ।

अलङ्कतुँ दक्षिणाशां यश्चक्रे दक्षिणाऽयनम् ॥४॥

तस्यामूत्तनयः प्रभूतविनयः श्रोसोढलः प्रौढघी-यॅन श्रीकरणप्रवृद्धविभवं भूवल्लभं भिल्लमम् । आराध्याखिललोकशोकशमनोकीत्तिः समासादिता जैत्रे जैत्रपदं न्यघायि महती श्रीसिङ्घणे श्रोरपि ।।४।।

एकः क्ष्मावलये क्षितीश्वरमिलन्मौलीन्द्रनीलावलि-प्रोदञ्च्चद्द्युतिचित्रिताङ्घ्रिनखरश्रेणिर्नृपालाग्रणोः । श्रीमत्सिङ्घणदेव एव विजयो यस्य प्रतापानलो विद्वव्याप्यपि दन्दहीति हृ्दयान्येव द्विषामुद्घुरः ॥६॥

तं प्रसाद्य सुधोधुर्थो गुणिनं गुणरागिणम् । गुणग्रामेण यो विप्रानुपकारैरतीतृपत् ।।७।। ददौ न किं न किं जज्ञौ न दधौ कां च सम्पदम् । कं धर्मं विदधौ नैष न बभौ कैर्गुणरयम् ।।⊏।।

(ii) Author's lineage : 2-8

There¹ is a family line, an abode of beneficence, founded by the sage Vrsagana in the beautiful (valley of) Kashmir, which has spread its fame in all the quarters of the world through the descendant dignitaries representing Brahmā² on the earth as it were, the best among the brahmins, the masters of the vedic lore, the upholders of religious order and the presiding priests of vedic sacrifices, who have enriched its lineage. (2-3)

In that family was born a treasure-house⁸ of extraordinary excellences bearing the name Bhāskara⁴ (lit. the sun) who, with a view to grace the southern⁶ direction by his presence, migrated to the south. (4)

- 1. 'S' informs that Vrsagana is the name of a sage (i. e., *tsi*) as well as a surname (i. e., *gotra*).
- 2. The creative aspect of pure being, one of the gods of the Hindu trinity Brahmä, Vișnu and Siva. The significance of this metaphor is brought out by the words bhū-deva and bhū-sura which are the synonyms of brāhmaņa. The brahmins are accordingly considered to be the gods of earth, gods in the sense of beings of extraordinary religious spirit.
- 3. The receptacle of divine glory or spiritual pre-eminence resulting from a sacred knowledge, as per one of the interpretations of 'S'.
- 4. That is, to mention one of the pioneers of the family line.
- 5. 'S' puts forward two other interesting interpretations, viz. i) 'he set out in search of a generous patron', ii) 'he set out to answer the call, to meet the demand of the experts'. The word daksing in Sanskrit has three different meanings, viz. right (as opposed to left) or south, efficient or clever, and favourable. The word is actually loaded with all the three connotations, as its meaning as 'right' is suggestive of his sectarian affiliations, since there are two paths daksindcara and vamacara, the positive and the negative approaches to the fulfilment of life. Besides, in Indian tradition, charity and gifts are given by the right hand and that is how the word daksing is suggestive of the meaning that he set out in the search of a generous patron.

He begot a son Śri Sodhala by name; who, modest and mature of intellect as he was, attained the glory of alleviating the misery of the entire populace by endearing himself to king Bhillama whose fortune was fast-growing by the grace of Laksmi⁶. Also for Jaitra⁷, he established a column of victory in the majesty of king Śri Singhana. (5)

The king Srī Singhaņadeva was the only victorious monarch of the entire world, the emperor whose line of tocnails was picturesque by the reflection of the brilliant streak of light issuing forth from the garland of the crown-gems of the (other) kings (of his time) falling at his feet; and the pervasive⁸ fire of whose victorious prowess burned the hearts of his foes only. (6)

Foremost among the intellectuals, he (Sodhala) by his various accomplishments pleased the emperor, a mine of merit by himself and a lover of merit^o (in others); and satisfied the host of brahmins by affording generous gifts. Indeed, what did he not give away, what did he not know and what wealth did he not acquire¹⁰. In fact he possessed every virtue and good quality of character. (7-8)

- 6. Goddess of wealth. It is implied that Sodhala having pleased the king Bhillama of immense treasures, obtained enormous riches from him which he distributed among the needy out ot his generosity.
- 7. Jaitra was the son of king Bhillama who succeeded him, 'S' however says that it is a name of a city.
- 8. Visconyapt of the text literally means 'pervading the entire universe'. 'S' points out the figure of speech known as Visetokti whereby, despite the presence of the cause, the effect is not fully manifest; since here the fire of his provess pervades the whole world, yet it burns the hearts of his enemies only.
- 9. 'S' points out the use of parikara alankāra (a figure of speech) since the expression gunarañjana is an adjective loaded with meaningful intention.

10. The purport is that, he could and did part with every valuable thing, i. e. he generously gave in charity and gifts, he was proficient in every branch of knowledge, and he did not lack in any kind of wealth; and thus he was prosperous in every way. (iii) प्रन्थकृतो वैशिष्ट्यं, प्रन्थप्रखयनहेतुरच तस्माद्दुग्धाम्बुधेर्जतिः शार्ङ्कदेवः सुधाकरः । सदौदार्यस्फूरत्करः ।।९॥ उपर्युपरि सर्वान्यः कृतगुरुपदसेवः **प्रीणिताशेषदेवः** कलितसकलशास्त्रः पूजिताशेषपत्रः । विततकोत्तिर्मन्मथोदारमुतिः जगति शार्ङ्गदेवोऽयमेकः ॥१०॥ प्रचुरतरविवेकः नानास्थानेषु संभ्रान्ता परिश्रान्ता सरस्वती । सहवासप्रिया शश्वद्विश्राम्यति तदालये ।।११।। स विनोदैकरसिको भाग्यवैदग्ध्यभाजनम् । धनदानेन विप्राणामाति संहृत्य शाश्वतीम् ।।१२।। जिज्ञासूनां च विद्याभिर्गदार्तानां रसायनैः। अधूनाऽखिललोकानां तापत्रयजिहीर्षया ॥ १३॥ शाश्वताय च धर्माय कीत्त्यें निःश्रेयसाप्तये । आविष्करोति संगीतरत्नाकरमुदारघीः ।।१४॥

(iii) Author's personality and the purpose of his undertaking : 9-14

From the heavenly ocean of milk¹ (Śrł Sodhala) was born the producer of nectar (the moon) named Śārńgadeva (the author), the rays² of whose righteous generosity spread wide upon all. (9)

In serving his preceptor, endearing himself to all the gods, studying all the sciences, adoring the worshipful,

^{&#}x27;S' interprets the entire verse taking *Bhaskara* as a proper name and also as referring to the sun, and thereby brings out the poetic beauty of the verse.

^{1.} Moon was one of the precious gems that were churned out of the mythological milk-ocean by the gods and the demons together (by a mythological convention).

^{2.} The Skt. word *kara* means a ray, as well as a hand. So, since the poet is presenting a metaphor, the word is quite significant in both of its connotations.

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Treatment of Svara

Sārngadeva of widespread fame, with a majestic personality comparable to cupid and endowed with clever wit and sharp discrimination, is unique by himself in this world. (10)

Bewildered and tired of roaming around various places, and desirous of his (Sārngadeva's) association, Sarasvat1, the goddess of learning, has found a permanent rest-house in his residence. (11)

The incomparable reveller of amusements, the deserving candidate of good luck and skill, having mitigated the eternal poverty⁸ of the brahmins by generous distribution of his wealth among them, having satisfied the inquisitive scholars by his learning, and having cured the sick by his drugs, he the high-minded one now commences his work Sangita-ratnākara for emancipating⁴ the entire populace from the threefold misery⁵ of the worldly life, serving the cause of eternal *dharma*⁶, obtaining glory and for achieving liberation⁷. (12-14)

(iv) पूर्वाचार्यस्मरणम्

सवाशिवः शिवा ब्रह्मा भरतः कश्यपो मुनिः । मतङ्गो याष्टिको दुर्गाशक्तिः शार्दूलकोहलौ ॥१४॥ विशाखिलो दत्तिलश्च कम्बलोऽश्वतःस्तथा । वार्यावश्वावसू रम्भाऽर्जुनो नारदतुम्बुरू ॥१६॥

- 4. Liberation is the ultimate end of the art of music as understood in India. 'S' points out *prakaraņa* songs such as *madraka* etc., that are mentioned subsequently in the text for this very purpose.
- 5. Threefold misery is suffering pertaining to the physical, mental and spiritual being.
- 6. Dharma is moral law, religion and duty appropriate to one's station in life.
- 7. Sanglia is also a medium of attaining liberation, through the vocal compositions known as *prakarana-s* to be sung in the praise of Lord Siva.

आञ्जनेयो मातृगुप्तो रावणो नन्दिकेश्वरः । स्वातिर्गणो बिन्दुराजः क्षेत्रराजश्च राहुलः ॥१७॥

रुद्रटो नान्यभूपालो भोजभूवल्लभस्तथा । परमर्दी च सोमेशो जगदेकमहीपतिः ॥१८॥ व्याख्यातारो भारतीये लोल्लटो.द्भूटशङ्कुकाः । भट्टाभिनवगुप्तश्च श्रीमत्कीत्तिघरः परः ॥१९॥ अन्ये च बहवः पूर्वे ये संगीतविशारदाः । अगाधबोधमन्थेन तेषां मतपयोनिधिम् ॥२०॥ निर्मथ्य श्रीशार्ङ्कदेवः सारोद्धारमिमं व्यधात् ।

(iv) The predecessors of the author : 15-21b

Śārngadeva, having churned, by the churning rod of his deep understanding, the ocean of the manifold viewpoints of previous music experts such as—Sadāśiva, Śiva, Brahmā, Bharata, sage Kaśyapa, Matanga, Yāṣṭika, Durgāśakti, Śārdūla, Kohala, Viśākhila, Dattila, Kambala, Aśvatara, Vāyu, Viśvāvasu, Rambhā, Arjuna, Nārada, Tumburū, Ānjaneya, Mätrgupta, Rāvaņa, Nandikeśvara, Svāti, Bindurāja, Kṣetrarāja, Rāhula[®], Rudraţa, King Nānyadeva, King Bhoja, (Paramardī[®]), Someśa the vanquisher of his foes, king Jagadeka and the interpreters of Bharata such as Lollaţa, Udbhaţa, Śańkuka, Abhinavagupta and Kīrtidhara—has brought out the cream¹⁰ of knowledge in the form of this book. (15-21b)

- 9. Paramardi-cf. G. O. S. No. 45-Bhāvaprakā iana p. 73, of Introduction, conjecturing Paramardi, to be a man of letters and a king. Paramardi can also be an epithet of Someša.
- 10. 'K' suggests that, by describing his work as the acme of the works of his predecessors, the author is pointing out the superiority of his work. However 'S' poses the question, "Since so many works do exist on the subject what then is the need for the author to write a new book ?", to which he

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^{3.} Since the brahmins are entirely devoted to the pursuit of knowledge they are always in the need of money.

^{8.} Ad. ed. of S. R. reads Rāhala. See Dr. V. Raghavan's article on "Some Names in Early Sangeet Literature", Sangeet Natak Academy Bulletin No. 6, May 1957.

1

Treatment of Svara

(४) सङ्गोतलक्ष्मणं, तत्र मार्गदेशीविभागश्च गोतं वाद्यं तथा नृत्तं त्रयं संगीतमुच्यते ॥२१॥ मार्गो देशीति तद् द्वेघा तत्र मार्गः स उच्यते । यो मार्गितो विरिञ्च्याद्यंः प्रयुक्तो भरतादिभिः ॥२२॥ देवस्य पुरतः शंभोर्नियताभ्युदयप्रदः । देशे देशे जनानां यद्रुच्या हृदयरञ्जकम् ॥२३॥

गीतं च वादनं नृत्तं तद्देशीत्यभिधीयते ।

(v) The definition of saig Ita: its classification as marga and desi : 21c-24b

Gitam (vocal melody), $v\bar{a}dyam$ (playing on instruments) and <u>nrttam (dancing)</u>, all the three together¹ are known as <u>sangita</u> which is twofold, viz. <u>mārga²</u> and <u>deśi</u>. That which was discovered by Brahmā and (first) practised by Bharata and others in the audience of lord Siva is known as mārga (sangita), which definitely bestows prosperity; while the sangita comprising gitam, vādyam and nrttam, that entertains people according to their taste in the different regions, is known as deśi. (21c-24b)

> replies that, "all these ancient works are too numerous and intelligible with great difficulty and therefore the author's attempt to present the essence of these works in a nutshell is worthwhile and creditable". Another purpose of the author in having referred to his predecessors as suggested by 'S' is that, Sārāgadeva, by having claimed to have taken the views of all these authorities into consideration, wants to prove the authenticity of his own work.

1. All the three are comprehended as different constituents of the same art, called sangita. Etymologically the word sangita means singing along with accompaniments and embellishments. The term sangita is also used merely for music; but, that is a figurative use, taking container for the thing contained; or, taking the part for the whole.

2. The term marga is etymologically explained by 'K' as derived from the Skt. root mrg, to seek. Thus marga is the way, the technique or practice based on the findings of the investigation (vi) गीतस्य प्राधान्यम्

नृत्तं वाद्यानुगं प्रोक्तं वाद्यं गीतानुर्वति च ॥२४॥ अतो गीतं प्रधानत्वादत्रादावभिघीयते ।

(vi) The predominance of gitam : 24c-25b

Dancing is guided by instrumental music which, in its own turn, follows the vocal practice. Therefore, the vocal melody (i. e. gitam), being the main constituent (of sangua) is expounded in the first instance. (24b-25c)

(vii) गीत-प्रशंसा

सामवेदादिदं गीतं संजग्राह पितामहः ॥२४॥ गीतेन् प्रीयते देवः सर्वज्ञः पार्वतीपतिः । गोपोपतिरनन्तोऽपि वंशध्वनिवशं गतः ॥२६॥

सामगीतिरतो ब्रह्मा वीणाऽऽसक्ता सरस्वती । किमन्ये यक्षगन्धर्वदेवदानवमानवाः ॥२७॥ अज्ञातविषयास्वादो बालः पर्यङ्किकागतः । इदन्गीतामृतं पीत्वा हर्षोत्कर्षं प्रपद्यते ॥२८॥

वनेचरस्तृणाहारश्चित्रं मृगशिशुः पशुः । लुब्धो लुब्धकसङ्गीते गीते यच्छति जीवितम् ।।२९।।

तस्य गीतस्य माहाऽऽत्म्यं के प्रशंसितुमोशते । धर्मार्थकाममोक्षाणामिदमेवैकसाधनम् ।।३०॥

carried out by Brahma, the creator in the subject matter of the four Vedas (cf. नाटयभंडमिमं वेद सेतिदासं करोम्बदम्) as quoted by 'K'. So, by implication marga means classical, while defi means regional practice. (vii) The importance and significance of gitam (melody): 25c-30

Gitam¹ (the vocal music) was extracted from the Sāmaveda and collected² by Brahmā. Omniscient God, the husband of Parvati (i. e., Šiva) is propitiated by gitam (i. e., singing); Krsna, the lord of gopi-s, in spite of being infinite, was enamoured⁸ of the sound of the bamboo flute. When Brahmā (the creator) is devoted to sāmagīti (i c., the hymns of the Samaveda sung in a particular style), and Sarasvati is attached⁴ to the lute $(vin \bar{a})$, what to speak, then, of other creatures, such as the yaksa-s⁵ and of gandharva-s, the gods and the demons, and the human beings. An infant, crying in cradle, unaware of the enjoyment of objects, on tasting the nectar of a song, knows no bounds of joy. Even a fawn, an animal feeding on grass and moving in the forest, attracted by the song of a hunter, is ready to sacrifice its life. Who indeed can describe the grandeur⁶ of melody, for in fact, it is the only⁷ means for the realisation of the four

- 1. As suggested by 'K' the hymns of the Samaveda are sung in seven tones, viz. krusta, prathama, dvittya, tfittya, caturtha, mandra and atisvatya, and so is the present music based on seven tones of a different nomenclature.
- 2. 'K' suggests that since the creator himself has extracted sangita from the Samaveda it is open to all the four castes.
- 3. Lit. entrapped, charmed, confined.
- 4. That is, fond of Sarasvatī, the goddess of learning, who, in the Hindu mythology, is contemplated with a vīnā in two of her four hands and is considered to be the presiding deity of fine arts.
- 5. Yakşa-s and gandharva-s are semi-divine beings of mythological origin that have also found a place in poetic convention in Sanskrit literature. Yakşa-s as demigods are considered to be the attendants of Kubera, the god of wealth, and guard his gardens and treasures; while gandharva-s are celestial singers.
- 6. Lit. the significance and importance.

7. Though there are definite means for the attainment of these values, music is a delightful medium of achieving the same ends. Vocal music is employed in the worship of the Divine almost universally. Thus it earns spiritual merit. 'S' further points out that, as mentioned in the text in the context of *jāti-s*, the proper use of *jāti-s* is instrumental to the attainment of *dharma*.

That music is a means of earning one's livelihood and wealth needs no explanation, and similarly it also serves as a primary values of human life, viz. righteousness (dharma), wealth (artha), enjoyment (kāma) and emancipation (mokşa). (25c-30)

(viii) ग्रन्थस्थसप्ताध्यायानां वस्तुसंग्रहः

स्वरगताध्याये प्रथमे त्रतिपाद्यते । तत्र शरीरं नादसंभूतिः स्थानानि श्रुतयस्तथा ग३१॥ ततः शद्धाः स्वराः सप्त विकृता द्वादशाप्यमी । कूलानि जातयो वर्णा द्वीपान्यार्षं च दैवतम् ।।३२।। छन्दांसि विनियोगाश्च स्वराणां श्रुतिजातयः । ग्रामाश्च मूर्छनास्तानाः शुद्धाः कुटाश्च संख्यया ।।३३।। प्रस्तारः खण्डमेरुश्च नष्टोहिष्टप्रबोधकः । स्वरसाधारणं जातिसाधारणमतः परम् ।।३४॥ काकल्यन्तरयोः सम्यक्प्रयोगो वर्णलक्षणम । त्रिषष्टिरप्यलङ्कारास्त्रयोदशविधं ततः ॥३४॥ जातिलक्ष्म ग्रहांशादि कपालानि च कम्बलम् । गोतयश्चेत्येतावान्वस्तूसंग्रहः ।।३६।। नानाविधा

अथ रागविवेकाख्येऽध्याये वक्ष्यामहे क्रमात् । ग्रामरागांश्र्वोपरागान्रागान्भाषा विभाषिकाः ॥३७॥

ततोऽप्यन्तरभाषाश्च रागाङ्गाण्यखिलान्यपि । भाषाऽङ्गाण्यप्युपाङ्गानि क्रियाऽङ्गाणि च तत्त्वतः ।।३८।।

ततः प्रकीर्णकाध्याये तृतीये कथयिष्यते । वाग्गेयकारो गान्धर्वः स्वरादिर्गायनस्तथा ।।३९।।

medium of entertainment apart from affording aesthetic delight; e. g., music is employed to heighten the sentiment of love. So, music serves as means to the realisation of the two other values, viz., wealth and enjoyment. Finally, music is a means to spiritual emancipation when it is practised in the spirit of dedication, e. g. in the case of songs like madraka given in the text subsequently (Chap. V.).

Treatment of Svara

गायनी गुणदोषाश्च तयोः शब्दभिदास्तथा । गुणदोषाश्च शब्दस्य शारीरं तद्गुणास्तथा ॥४०॥ तद्दोषा गमकः स्थाया आलप्तिर्वृ न्दलक्षणम् । ततः प्रबन्धाघ्याये तु धातवोऽङ्गानि जातयः ॥४१॥

प्रबन्धानां, दिधा सूडः शुद्धइछायालगस्तथा । आलिक्रमप्रबन्धाश्च सूडस्था आलिसंश्रयाः ॥४२॥ विप्रकीर्णास्ततश्छायालगसूडसमाश्रिताः । गीतस्था गुणदोषाश्च वक्ष्यन्ते शार्ङ्झमूरिणा ॥४३॥

तालाध्याये पञ्चमे तु मार्गतालाः कलास्तथा । पाता मार्गाश्च चत्वारस्तथा मार्गकलाऽष्टकम् । । ४४। । गुरुलध्वादिमानं चंककलत्वादयो भिदाः । पादभागास्तथा मात्रास्ताले पातकलाविधिः । । ४४ । । अङ्गुलीनां च नियमो भेदा युग्मादयस्तथा । अङ्गुलीनां च नियमो भेदा युग्मादयस्तथा । परिवर्तो लयास्तेषां यतयो गीतकानि च । । ४६ । । छन्दकादीनि गीतानि तालाङ्गनिचयस्तथा । गीताङ्यानि च वक्ष्यन्ते देशीतालाश्च तत्त्वतः । । ४७ ।।

निःशङ्कशार्ङ्भदेवेन तालानां प्रत्ययास्तथा । षष्ठे नानाविधं वाद्यमघ्याये कथयिष्यते ।।४८।। सप्तमे नर्तनं नानारसभावा: क्रमेण च ।

(viii) Synopsis of the work: 31-49b

Now in the first chapter concerning svara¹ (tone) etc., the topics of study are :

(i) human embodiment², \leftarrow

- 1. 'K' explains svaragata in svaragatādhyāya as स्वरानुगता: स्वरगता: ख्रांत्यामा-etc, i. e the topics pertaining to svara such as śruti, grāma, mūrcchanā and so on dealt with in this chapter.
- 2. Human embodiment is discussed in this context because human body is the instrument of voice production, i. e. the manifestation of hada.

 $h \cdot \mathbf{I}$

Section I : Introductory

- (ii) the process of sound production (in the body),
- (iii) the places (of sound production, i. e., the three registers),
- (iv) the sruti-s⁸ (micro-tones),
- (v) the seven (suddha⁴) (standard) svara-s (notes or tones) along with twelve vikrta⁵ (modified forms),
- (vi) the family, caste, colour, terrestrial region, originator sage, presiding deity, metre and the proper application⁶ of each of the *svara-s*,
- (vii) the generic groups of *śruti-s*,
- (viii) the grama-s (basic scales),
- (ix) the mūrcchanā-s⁷ (modified prototype scales),
- (x) the *suddha*^{*} and *kuța tāna-s* (specific combinational and permutational note-series) with their number,
- (xi) the prastāra⁹ (sequential permutation),
- (xii) the khandameru¹⁰ (permutation indicator),
- 3. Sruti-s are the twentytwo divisions of the scale of seven notes, to be defined and demonstrated later in the text.
- 4. Suddha svara-s are the seven tones of a definite pitch comprehending 4, 3, 2, 4, 4, 3 and 2 srati-intervals respectively.
- 5. Viktta-swara-s comprise these very seven tones with more or less modified pitch in the terms of *sruti*-intervals, explained later in the text.
- 6. Viniyoga indicates the proper context in the terms of dramaturgy and aesthetic delight, i e, rasa for which a particular melody is employed. See Ragadhyaya (Chapter II) for illustrations.
- 7. Series of seven notes in ascending and descending order, commencing with different notes.
- 8. In the ancient sense, when one or two notes are omitted from a scale, in the act of singing, it becomes a tana; and if such omission does not alter the order of the rest of the notes, it is called a *suddha tana*, while *kafa-tana* is related to the permutation of notes in groups of two to seven.
- 9. Prastara represents an actual working out of these various permutation and combination patterns.
- 10. Khandameru is the name of a mathematical device in the form of a numerical graph which indicates naşta and uddişta, where the former points out the particular permutation for a given number and the latter gives the number of a given permutation, to be explained subsequently in the text. (63-70 of Sec. IV)

- (xiii) the *svara-sādhāraņa*¹¹ (overlapping in note-intervals),
- (xiv) the jāti-sādhāraņa¹² (overlapping in jāti-s),
- (xv) the proper use of kākali-nişāda¹³ and antara-gāndhāra,
- (xvi) the definition of varya¹⁴ (colour or pattern of tonal movement),
- (xvii) sixtythree alankāra-s¹⁵ (patterns of tonal phrases),
- (xviii) the thirteen characteristic features of $j\bar{a}ti-s^{16}$ (melodic types), graha (initial note), $amsa^{17}$ (fundamental note) etc.,
- (xix) the kapala and kambala songs, and
- (xx) the various types of giti-s¹⁸.

These form the collection of topics under study. (31-36)

In the chapter entitled 'Rāgaviveka' (lit. the discernment of rāga-s) we shall respectively speak of :---

Grāmarāga-s, uparāgo-s, rāga-s, bhāşā-s, vibhāşā-s, antarabhāşā-s and rāgānga-s in full detail and the bhāşānga-s, upānga-s and the kriyānga-s, in their essentials. (37-38).

- 11. Svarasadharaya is defined later in the text; but here it would suffice to say that it comprehends a pitch interval that is commonly incorporated by both the tones involved.
- 12. Among the *jdti-s* of the same grama having the same tone as the fundamental note, the identical melodic presentation that obtains between them is called *jdti-sadharana* (See 10-11b of Sec. V).
- 13. Antaragāndhāra and kākalt-nisāda are the pitch-intervals obtaining in the svara-sādhāraņa, located at the distance of 2 śruti-s from gāndhāra and nisāda respectively.
- - 15. Alankara signifies a melodic phrase, a definite arrangement of varna-s.
 - 16. Jali represents the first written record of a scientific study of the melodic patterns that later on developed into ragastructures Jali, therefore, is conceived as an archetype of

 - 17. Graha and amia are specific notes of a raga-structure which are defined later in the text.
 - 18. Gili signifies the act of singing, comprehending the tonal, rhythmic and verbal structure of a musical composition.

Then in the chapter entitled 'Prakirnaka' (lit. miscellaneous) will be described :--

- (i) Vāggeyakāra¹⁹ (master composer),
- (ii) Gāndharva,²⁰
- (iii) Svarādi²¹
- (iv) Songster,
- (v) Songstress and
- (vi) the good and bad characteristics of the two (i. e., iv & v),
- (vii) the classification of voice and
- (viii) the good and bad qualities of voice,
- (ix) Sarīra²² and its
- (x) good and bad qualities,
- (xi) Gamaka²³ (shaking on tones), i. e., grace,
- (vii) Sthāya²⁴ (specific features of tonal rendering),
- (xiii) Alapti²⁵ and
- (xiv) the nature of group performance. (39-41b)

The following topics will be dealt with by the learned Sarngadeva in the fourth chapter entitled 'Prabandha'²⁶ (musical composition):

- 19. Viggeyakāra, a master composer, is capable of composing not only the tonal structure of a murical composition but also the verbal structure, i. e., the text of the melody.
- 20. One who is proficient in marga as well as dest, music, is called gandharva.
 - 21. Svaradi is the performer of dest music only.
 - 22. Sarira is peculiarly an Indian concept and has no counterpart in western terminology. The author elsewhere defines it as "the built-in capacity of voice (or the entire organism responsible for the production of voice) for musical application (or for the delineation of a raga etc.) without any training" (cf. S.R. III. 82).
 - 23. Gamaka is a graceful shake.
 - 24. Sthāya is an organic part (avayava) of rāga. (See S.R. III 97c-98).
 - 25. Alapti is the delineation of raga.
 - 26. Prabandha is a musical composition, but in this chapter, the author deals with only vocal compositions and their classifications.

16

(i) $Dhatu-s^{27}$ (sections)

(ii) Anga-s²⁸ (integral parts) { of vocal composition

(iii) Jati-s²⁹ (classes)

- (iv) the twofold suda, viz. suddha and chayalaga, and
- (v) *Alikrama*-compositions rooted in the suda and depending on ali
- (vi) Viprakirna^{3 o} compositions, depending on Chayalaga suda, followed by
- (vii) the good and bad qualities inherent in vocal performance (41c-43).

In the fifth chapter entitled 'Tala's1 (the cyclic timefigure) we shall essentially speak of—

- (i) The mārga-tāla-s
- (ii) Kalā-s⁸² (inaudible movements of the hand)
- (iii) Pāta-s³³ (audible movements of the hand)
- 27. Dhatu, literally means a basic element and this expression seems to have been borrowed from Ayurveda (cf. verse 71 of Section 2). Here it signifies 'section' of a musical composition which basically refers to its tonal aspect in contrast with its syllabic content or the non-tonal aspect called matu. The constitution of prabandha has been conceived on the analogy of an organic body like that of a human being A prabandha may have 2 to 5 dhAtu-s, the average being 4, i. e. udgrāha dhruva, melāpaka and ābhoga, the fifth being antarā.

- 28. Anga, literally means a part of an organic body; here, an integral part of a musical composition. Prabandha is said to have six limbs (i.e., organs), viz. two feet, i.e., svara and tala; two eyes, i.e., pada and tena; and two hands, i.e., pata and biruda. We can have two to six of these in a piece.
- 29. That is, generic classes of vocal compositions, viz. medint etc., five in number, based on the number of anga-s used in a composition.
- 30. Viprakirna-miscellaneous, i.e., apart from those enumerated above.
- 31. Tala signifies cyclic movement in time and is popularly known as the "time beat". The author classifies Idla as marga and delt and speaks of five marga-tala-s and 120 dest-tala-s.

Tala literally is derived from the Skt. root tal—to establish. So, in tala are cstablished (i.e., based) the three arts of singing, playing on musical instruments and dancing. Tala is the measure of time that regulates action in music.

Kala, in this context is defined as nihlabda-kriya, i.e., soundless

733. Pata is defined as sasabda-kriya, i.e., act, accompanied with sound (beat).

- (iv) Mārga-s⁸⁴ (styles)
- . (v) the eight mārgakalā-s (i. e., mātra-s, viz. dhruvakā etc.)
- (vi) the standard measure of guru (long) and laghu³⁵ (short)
- (vii) the varieties beginning with ekakala etc.
- (viii) the pādabhāga-s⁸⁶
- (ix) the matra- s^{37} (fixed units of time)
- (x) the technique of $p\bar{a}ta^{3\,\theta}$ and kalā in tāla
- (xi) the regulation of fingering
- (xii) the varieties such as yugma etc.
- (xiii) Parivarta⁸⁰ (the repetition of pada divisions)
- (xiv) Laya-s⁴⁰ (tempo or musical speed)
- (xv) and their yati-s (orders of laya)
- (xvi) Gitaka-s41
- (xvii) Chandaka gita-s⁴²
- (xviii) the group of tālānga-s, and

31. Marga-s in this context signify the four ways, viz. dhruva etc. in which a particular time-beat cycle can be executed.

- 35. Laghu and guru signify, primarily, effort in pronouncing a syllable. In metres regulated by the number of syllabic instances—one instance or matra is allotted to a short vowel and two to a long one. A syllable is that part of a word that can be pronounced at once, i.e., a vowel with or without one or more consonants.
- 36. A unit of two or four guru-s.
- 37. <u>Matra signifies a unit, a standard time-measure of a beat-</u>cycle.
- 38. Pata roughly signifies a beat that sounds and kala, a beat that does not sound.
- 39. Parivarta signifies repetition of padabhaga etc.

40. Laya is tempo, i. e. space in between the beats. 'S' defines it as the time interval in the act of beating, while yali signifies a scheme of sequence in laya-s.

41 & 42. Seven (or fourteen) song-patterns known as madraka etc. are called prakarnak hya gita-s which are predominently, based on tola and are said to be sung in the praise of lord Siva for obtaining (spiritual) emancipation.

(xiv) gilanga-s

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- (xx) Dest tāla-s48
- (xxi) the *pratyaya-s* (tabular formulas for finding out the serial number and the structural form of *tāla-s* (44-48b)

In the sixth chapter will be described numerous musical instruments, while in the seventh chapter, we shall deal with dancing and the various *rasa-s* (types of aesthetic delight) and *bhāva-s* (modes of being) in due order. (48c-49b).

43. 120 dest-tāla-s such as ādi-tāla etc. have been enumerated by Sārāgadeva.

त्राथ द्वितीयं पिएडोत्पत्तिमकरराम्

क. विषयावतरणम

(i) नादमहिमा

गीतं नादात्मकं वाद्यं नादव्यक्त्या प्रशस्यते । तद्द्वयानुगतं नृत्तं नादाधीनमतस्त्रयम् ।। १ ।। नादेन व्यज्यते वर्णः पदं वर्णात्पदाद्वचः । वचसो व्यवहारोऽयं नादाधीनमतो जगत् ।। २ ।।

Section 2

The Genesis of the Human Embodiment

A. Introduction :

(i) The importance of nāda : 1-2

 $N\bar{a}da^1$ is the very² essence of vocal music. Instrumental music is enjoyable⁸, as it manifests *nāda*. N_ftta (dance)

Having presented a synoptical view of the proposed work, the author proceeds to describe the genesis of human embodiment. What is the relevance of such a topic in a music treatise ? It is indeed exceptional that Sarngadeva has considered it necessary to deal with this subject matter which concerns embryology and physiology of human body. He could do so, for he was himself a physician; and he thought

1. Noda, as already stated, is primordial sound considered by some of the schools of Indian Philosophy, specially Yoga and Tantra, to be the primary cause of the phenomenal world. Of the five basic elements, earth, water, fire, air and ether, perceived correspondingly by the senses of smell, taste, vision, touch and hearing, ether is the most pervasive and the cause of the rest. Sound is considered to be the manifestation of nada, which is described as Nada-brahman and is thus equated with the absolute of the Upanisads.

2. That is, the intangible substance which manifests itself through the articulate sound. The manifest refers to the unmanifest by implication.

3. Literally *prasaryate* means, 'is praised'; but, 'S' rightly interprets it as 'ramantyatam upaiti', i e., attains the excellence of beauty, becomes enjoyable as beautiful.

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follows⁶ both (i.e., vocal and instrumental music); therefore, all the three⁶ together depend on *nāda*. (1)

it fit to do so because, human body provides the required circumstance and instrumentation for the production of voice and vocal melody, Just as some study of physiology is necessary for understanding the process of voice production in the science of voice culture, so also, our author finds it necessary to investigate the genesis of human embodiment. This is indicated by him in the first few verses of this section.

However, Särngadeva does not seem to be the only writer on music of his times, who has considered it worthwhile to deal with the subject of human embodiment. Saradatanaya, who is almost a contemporary of Saragadeva (cf. Introduction to Bhavaprakasanam, G.O.S. No. XLV, Baroda, p. 76, wherein he is placed between 1175-1250 A.D.), and whose work mainly concerns poetics and deals with music as a subsidiary art to dramatics, also mentions in the beginning of the seventh Chapter the process of creation according to the Kashmir Saivism and Tantra, the process of human embodiment (albeit) very briefly as compared to S.R. and rather somewhat differently) and voice production in the body. Attention would be drawn to some of his theories in Section 3 of this Chapter, and a note pointing the salient features of his account of the embodiment is given at the end of this topic (vide comments on 119).

It is, however, interesting to note that he designates the subject matter significantly as geya-samulpatti (the creation of vocal music). Geya is the technical word for melodic structure. Therefore, his treatment of the subject is quite differently oriented. With him the description of the phenomenal world or of the physical body is incidental to what he calls geya-samulpatti. And he describes it because geya (in the sense of music) is a means of realising the four values of life, viz. dharma, artha, kama and moksa—i.e. social and moral good, economic prosperity, enjoyment and spiritual emancipation (cf. p. 182 Bhavaprakasamam). $Nada^6$ manifests the letters (of alphabet), letters constitute the word,⁷ and words make a sentence; so, the entire business of life is carried on, through language³; and therefore, the whole phenomenon (i. e., the world) is based on $nada.^9$ (2)

Nada is the basis, not only for music and dance, though specially related to it, but of the entire business of life; since it constitutes the very substance of speech which is the only means of communication. The implication, as derived by 'K' is that, the fact that nada is the very basis of all manifest life, makes it more important and relevant for the author to deal with the subject of the genesis of the human embodiment.

(ii) द्विचिधो नादः, पिण्डोत्पत्तिप्रतिपादनौचित्यम्

आहतोऽनाहतः चेति द्विधा नादो निगद्यते । सोऽयं प्रकाशते पिण्डे तस्मात्पिण्डोऽभिधीयते ॥ ३ ॥

(ii) Twofold nāda : 3

Nada is said to be twofold, viz., produced¹ and unproduced. Since it manifests itself in the human body, the (process of) embodiment is being described. (3)

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^{4.} In the ancient Indian aesthetic concept of rasa and beauty, sangla, comprises the three arts of vocal and instrumental music and dance. The statement is, therefore, to be understood in that context. 'S' quotes, angenalambayed glam, i. e., 'song should be supported by the gesture', to support and to elucidate the statement, which becomes intelligible if sangla is considered to be a composite art of singing, playing on instruments and dancing.

^{5.} The word trayam of the text brings out the composite nature of tangita.

^{6.} Nada, here, means sound, h. e., articulation of consonant letters in conjunction with vowels; S' interprets nada, in this context, as 'dhvani' and explains it as the sound which is not distinguished in terms of varna-s, i. e., the particular articulations of sound symbolised by the letters of alphabet, but which is heard from afar and is responsible for the perception of high and low pitch associated with letters.

^{7.} Pada in Sanskrit is a meaningful word, i. e., a word with a relational value.

^{8.} Lit. sentence which is accepted to be the unit of language.

^{9.} Cf. Br. D. verses 16-20, quoted by 'S', for similar import.

^{1.} Ahata of the text literally means 'struck' and anahata literally means 'unstruck.' The idea is that nada has two forms, viz., the created and the uncreated, the former being an object of sense perception and the latter a matter of mystic experience of Yoga in which sound and light are fused together and there is direct perception.

ख. पिण्डोत्पत्तो दार्शनिकतत्त्वनिरूपणम्

(i) ब्रह्मस्वरूपम्

अस्ति ब्रह्म चिदानन्वं स्वयंज्योतिनिरञ्जनम् । ईश्वरं लिङ्गमित्युक्तमद्वितोयमजं विभुः ॥ ४ ॥ निर्विकारं निराकारं सर्वेश्वरमनश्वरम् । सर्वेशक्ति च सर्वज्ञम्,

B. Genesis : The metaphysical viewpoint.

(i) The nature of Brahman : 4-5c

Brahman is existence¹, blissful² awareness, the self-luminous⁸ and taintless⁴ supreme⁵ deity, said to be the ulti-

Human body is a part and parcel of the manifest phenomenon. To trace the process of the genesis of human embodiment, the author begins with the unmanifest, unconditioned timeless reality; and explains the emergence of numberless individuals, their relationship with the reality, and the principle determining the differences inherent in the individual manifestations of that pure existence.

- Asti Brahman of the text literally rendered would mean, 'there is Brahman'; but the word 'there' has to be used for the convenience of the syntax of English language, there being no corresponding idea implied in the text So Brahman is the essence of all existence, the is-ness.
- 2. The concept of Brahman, best expounded in the Advaitic school of the vedanta system of Indian philosophy, visualises three aspects of Brahman in the well-known phrase—'Saccidananda' which refers to the unitary character of pure being, pure intelligence and pure bliss. Though Brahman is devoid of all qualities, these are the essential features in terms of which the time-less reality is comprehended through language. *Cidananda* is 'bliss', as distinguished from the duality of feeling in terms of pain and pleasure, which is possible in awareness, the operation of pure intelligence.
- 3. Soayamjyotik of the text literally means that which is a light unto itself, i. e., the one that requires no external power to manifest itself.
- 4. That is without any blemish, absolutely pure, free from ignorance.
- 5. The word *livara* of the text etymologically is derived from the root '*isa*', to control, and literally means the controller, the ruler. But, since here it is used in the context of vedantic

mate⁶ cause, the non-dual⁷, unborn⁸, measureless⁹, unmodified¹⁰, formless, imperishable, omnipotent and omniscient 'supreme ruler'¹¹. (4-5c)

(ii) जीवस्वरूपम्

, तदंशा जीवसंज्ञकाः ।। ५ ॥

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अनाद्यविद्योपहिता यथाऽग्नेविस्फुलिङ्गकाः । दार्वाद्युपाधिसंभिन्नास्ते कर्मभिरनादिभिः ॥ ६ ॥

सुखदुःखप्रदैः पुण्यपापरूपैनियन्त्रिताः । तत्तज्जातियुतं देहमायुर्भोगं च कर्मजम् ।। ७ ।।

प्रतिजन्म प्रपद्यन्ते,

parlance, following in the wake of *Brahman*, it is used to denote Saguna-Brahman, i. e., Brahman qualified by the power of universal consciousness; and therefore, is equivalent to God or the personal deity. Isvara is defined as one who is capable of doing, not doing or doing otherwise.

- 6. Lingam is defined by 'K' as Prapañcalayanallingam, i.e., that in which the dissolution of the phenomenon takes place. Brahman is said to be the cause of the origination, sustenance and the dissolution of the creation.
- 7. Advitiya is a negative epithet, i. e., it negates duality but does not affirm oneness, for any positive statement presupposes its opposite, e. g., one implies many, so Brahman is non-dual, i. e., incomparable, inconceivable. 'S' interprets it as devoid of internal and external differentiation.
- 8. That is timeless existence.
- 9. Vibhu means pervasive, unlimited.
- 10. Yaska (Nirukta I. 1.1.2, p. 23) has spoken of six modifications of existential being, i. e., coming into being, being in existence, growing, disintegrating, decaying and destruction. Brahman is free from these modifications.
- 11. That is, the God of the gods, the controller of all the natural forces.

In the text this expression appears after 'formless' and not at the end as given in the translation for syntactic convenience.

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(ii) The nature of jiva (individual being): 5d-8a

Its relative¹ manifestations called *jiva-s*, delimited by the beginningless² nescience, are like the sparks of fire, differentiated by the circumstances³ of wood etc. (5d-6c)

Here the author elucidates the essential nature of the individual beings and their relationship with the source of all manifestation. As the sparks are identical with fire in essence and yet have an individual identity in form, so also the individual beings are limited manifestations of the unlimited Brahman, distinguishable from each other by the exigencies of existence caused by the unawareness of the totality of being, the substratum of individual existence. Thus the relationship between the manifest individual and the unmanifest, unconditioned reality is that of identity in difference. 'S' admits of another interpretation as well. He lays emphasis on the word anisa of the text and points out the fact that, since the individuals are conceived as parts and are admitted to be many, their relationship with Brahman is the one that subsists between the parts constituting the whole. 'K' interprets amisa as matra, i.e., a partial manifestation.

However, and a cannot be interpreted merely as a part, for the concept of and a implies an incomplete or partial manifestation of the whole, i.e., it must be understood that the part in this context necessarily implies the whole. So the part is not essentially different from the whole, though a limited manifestation of the whole.

- 1. An amfa as explained above, is a partial manifestation of the whole, i.e., a relative entity. This in fact is a unique relation, and when actually comprehended, transcends every form of relationship. So each implies all.
- 2. Time' is a relative concept, and it is only in the relative existence that time has significance; in the absolute, time has no value, since it is timeless. Nescience is said to be beginningless, i. e., causeless, since it has no real value in terms of being. Nescience is unawareness of the total being and is responsible for delimiting awareness in the consciousness of the individual, and thus bringing time into being. So being anterior to time, it can have no beginning in time.
- 3. Fire arising out of different kinds of wood gives rise to the sparks of a different colour or intensity; so, the sparks are not different from fire in so far as heat is the essence of both; but, yet, they are different with reference to the circumstance of their being due to the difference in the kind of wood that is the material cause of the fire. Thus the individuals differ in the form of their conditioning; but, are the same in so far as all are conditioned manifestations of awareness which by itself is unlimited,

Governed by their beginningless actions⁴, virtuous as well as evil, productive of pleasure and pain, they (*jlva-s*) attain, in every⁵ birth, to a physical body associated with appropriate genus⁶, life-time and enjoyment, as a consequence of their unfructified⁷ accumulated action. (6d-8a).

Here the author accounts for the variety in the form of individual beings so very characteristic of our creation. Nescience being the basis of individuation, action proceeding from it is also of the same order. i. e., beginningless. Since the nescience is itself the cause of time. individual differences cannot be accounted for in time, nor the differences are caused by any divine agency for God, though conceived to be the substratum of the nescience, is, by that very reason, unaffected by it. So, the differences in individual beings are taken to be a given fact and explained by the law of karma. Karma is incomplete partial actiou which necessitates a process of time-space for its completion. A seed when sown takes time to grow into a tree and bear some fruit. Thus sowing of the seed is a part of the whole process of a fruit-bearing tree. Another implication of the statement is that, since the actions of the individuals are beginningless, the differences characterising their being must ultimately be traced to the nescience, which is impersonal and beginningless. Thus the problem of the origination of good and evil is shifted from the individual level to the universal level.

This is a unique concept which avoids the problem of the origination of evil, being attributed to divine authorship and also the individuals are absolved from having good or evil as their inherent quality. Good and evil actions alike are the product of nescience, which is beginningless but not endless, since it can be ended by right knowledge or self-awareness Thus, nobody is eternally damned and everybody can hope for salvation.

- 4. Since the nescience, responsible for the sense of doership in the individual, is beginningless, the actions proceeding from that mentality are also spoken of as beginningless.
- 5. Many births are visualised for an individual; and this involves the theory of reincarnation. A thought body enduring till final emancipation is spoken of in the next verse. In every birth the individual is endowed with the suitable physical vehicle necessitated by his action.
- 6. The individual may be born in any kingdom, viz., vegetable kingdom, animal kingdom, etc. in their species, i. e. various animals, or among human beings, in different classes, occupied with different vocations, since the enjoyment of life is related to it.
- 7. The Skt. word karma is difficult to translate. The word is derived from the root k1 meaning 'to do', and denotes action, work, vocation, etc., in general. But in the context of reincarnation and the law of karma associated with it, karma is incomplete action, unspent force involving a time process for

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(iii) सूक्ष्मश्ररीरम्

, तेषामस्त्यपरं पुनः । सूक्ष्मं लिङ्गशरीरं तदामोक्षादक्षयं मतम् ।। ८ ।।

सूक्ष्मभूतेन्द्रियप्राणाऽवस्थाऽऽत्मकमिवं विदुः ।

(iii) The subtle body : 8b-9b

They are also possessed of another (subtle body¹), which is considered to be indestructible² till emancipation³, and is known to be made of the (essence of the five great) elements⁴, the senses⁵ (*indriva-s*) and the vital⁶ breaths in their subtle⁸ form. (8b-9b)

The physical gross body is obviously subject to decay and is destroyed in course of time; how then, is the individual reborn in another body? Anticipating the question, the author declares that an individual, apart from his physical body, is possessed of another subtle body that is made up of very fine matter which is not directly perceived by our senses, since it constitutes the very essence of the five elements etc. This thought body, so to say, is ideal and transmigrates from one birth to another. But even this subtle body is destroyed at the time of liberation which is the state of unconditioned intelligence or pure consciousness.

1. Linga Sarira is the subtle body which endures the death of the physical body and becomes responsible for a new birth.

2. Indestructible in the relative sense; for it lasts as long as there is craving in any form, and craving is caused by nescience which is dispelled by right knowledge. When the individual is free from craving, he no longer is held in this body and becomes one with reality.

- 3. Ad. ed. reads tada moksad etc. instead of tad-amoksad etc.
- 4. That is earth, water, fire, air and ether.
- 5. 'K' enumerates only sense-organs, while 'S' also includes the five motor organs known as karmendriya-s and the mind, under the import of the word indriya of the text.
- 6. Five types of the vital breath spoken of later in this Section.
- 7. Subtle form is that which is imperceptible by the senses.

(iv) स्टाष्टिसंहार-प्रवाहः

जीवानामुपभोगाय जगदेतत्सृजत्यजः ॥ ९ ॥ स आत्मा परमात्मा च विश्रान्त्यै संहरत्यथ । तदेतत्सृष्टिसंहारं प्रवाहानादि संमतम् ॥१०॥

(iv) The cycle of creation and destruction : 9c-10

The unborn¹ one creates this world for the enjoyment² of the individual beings; and that Atman,³ the universal self,⁴

Having stated what the nature of reality is, and the relationship of reality as a whole with the fact of individual beings, now the author proceeds to relate the nature of phenomenon, the fact of the ephemeral world and its relationship with its substratum, the timeless being, the causeless which is unborn. Whereas the phenomenon is essentially transitory (that is, it comes into being, continues for a certain time and returns to its source), the source, the reality is causeless, beyond time, eternal. The phenomenon of the world is created out of the measureless eternity and is dissolved back into it. Such is the relationship of the unmanifest and the manifest, which is beginningless, an eternal play of the Lord.

- 1. Being eternal the cause of creation is causeless. The Skt. word aja-of the text literally means 'unborn' and is a familiar epithet of Brahmay in the vedantic texts.
- 2. Why does the creation take place ? For the enjoyment of the individual beings that constitute the creation. The creator has no motive; so creation is a spontaneous movement. The Skt. word *bhoga* is neutral and includes all experience, pleasant as well as painful. Thus, it is the individual beings who are involved in the duality of opposites in experience, for the creator, creation is sportive action.
- 3. That Atman, refers to Brahman, the unborn. The word Atman, by itself stands for reality behind all experience; and is in this sense synonymous with the word Brahman. However, when the word *jtva* is prefixed to it, it refers to the individual being, and when the word *parama* is prefixed to it, it means the universal being, God
- 4. Paramatman is the super-self. Atman with reference to the individual beings that are conditioned by nescience indicates the substratum of reality that sustains the illusion of individuality; while with reference to the creator it indicates the substratum of reality supporting the entire phenomenon. Thus, Paramatman is the supreme self, i. e., the self of all the beings.

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withdraws it for the sake of rest⁸: thus, the order of creation and dissolution is believed to be an incessant flow.⁶ (9c-10)

(v) जीवब्रह्मणोः सम्बन्धः

ते जीवा नात्मनो भिन्ना भिन्नं वा नात्मनो जगत् । शक्त्या सृजन्नभिन्नौऽसौ सुवर्णं कुण्डलादिव ॥११॥

सृजत्यविद्ययेत्यन्ये यथा रज्जुर्भुजङ्गमम् ।

(v) The relation of *jiva* and *Brahman*: 11-12b

These individual beings are not different¹ from the *Atman*, neither is the world² different from it; for, creating by its own power³, it is non-different (from its creation),

3. According to the Bheda heda led anta philosophy, the creator creates the universe by its own power and therefore is not essentially different from its creation, just as the sunshine is not essentially different from the sun, just as gold⁴ is non-different from (its products such as) ear-ring etc.; according to others, however, it creates through nescience as the rope (gives rise to) the snake.⁵ (11-12b)

Now the author is presenting the whole picture of the creator and the creation; the relationship of the creator, the created beings and the world is that of identity in difference—identity with reference to substance and diversity with reference to form, just as ornaments made of gold are gold in substance and are yet called by different names such as ear-ring, bracelet, etc. The visible differences belong to the phenomenon and not to the reality manifested through it. However, as it would be clear from the analogy of gold and ornaments, creation in this view involves a transformation of reality.

The other view regarding the relationship of the creator and the creation does not accept the phenomenon to be a transformation of reality, rather it conceives it as an illusion based on individual nescience. According to this view the nature of phenomenon is estentially illusory, even though the substratum of the phenomenon is real. So phenomenon is only an appearance of the real caused by the limitations of individual lity. The stock example of, 'the snake appearing in a piece of a rope due to darkness', is a popular analogy to explain this particular relationship. Here, the non-existence of the snake is realised in the existence of the rope; similarly the true significance of appearance is realised only in the experience of reality.

(vi) भौतिकस्ट्रब्टिः आत्मनः पूर्वमाकाशस्ततो वायुस्ततोऽनलः ॥१२॥ अनलाज्जलमेतस्मात्पृथिवी समजायत । महाभूतान्यमून्येषा विराजो ब्रह्मणस्तनुः ॥१३॥

- 4. Gold is not different from the ornaments made out of it, as far as the substance is concerned, and yet, they are different in form with reference to each other. So the creation is not different with reference to the creator, the perceptible difference being relative in the manifest world.
- 5. As the rope, acting as the substratum gives rise to the illusion of the snake appearing in it; so also, through ignorance and the power of illusion, *Atman*, acting as the substratum, gives rise to the illusion of the phenomenon of duality.

^{5. &#}x27;K' suggests that, since creation takes place for the enjoyment of the individual beings, it is withdrawn by the creator also for the rest of the individual beings. Since the creator, being the substratum of the phenomenon, is not affected by the duality of pain and pleasure and for him creation is sportive, he needs no rest.

^{6.} Anadi of the text means beginningless. The idea is that creation and dissolution do not take place in time, since time itself is a part of creation. The world process is thus conceived to be an incessant flow. 'K' suggests that the world has a beginning with reference to the particular, i. e., individual manifestations only, viz a son is born and has a beginning but the universal, i e., the process of regeneration has no beginning.

^{1.} The individuals are considered here in the relationship of the constituents and the constituted, i.e., amfamfibhave, and are thus essentially non-different from i.e., identical with Atman, reality.

^{2.} The world too is conceived to be non-different from Atman, since the creator and the creation are understood to be in the relationship of cause and effect, i. e., karyakaranabhava. This relationship as well as the above one is accepted by the Bhedabheda school of the ued anta system of Indian philosophy.

ब्रह्म ब्रह्माणमसृजत्तस्मै वेदान्प्रदाय च । भौतिकं वेदशब्देम्यः सर्जयामास तेन तत् ॥१४॥ तदाज्ञयाऽसृजद् ब्रह्मा मनसैव प्रजापतीन् । तेम्यस्तु रेतसी सुष्टिः शरीराणां निरूप्यते ॥१४॥

(vi) The physical manifestation : 12c-15

From $Atman^1$ emanated, ether³, first⁸ of all, followed⁴ by air, fire, water and earth in their respective order. These are the great elements⁵, and they constitute the body of *Brahman*, then called *virāj.*⁶. (12c-13)

Having elucidated the metaphysical basis of reality and appearance, the creator and the creation and their mutual relationship, now the author proceeds to describe the order of physical emanation and the manifestation of nature etc. In Indian philosophy, the manifest phenomenon as perceived through the five senses is classified into the five basic elements, called mahābhūtā-s, which term is translated here as 'great elements'. These elements are not necessarily the equivalents of the English words ether etc. used here; but, since there is roughly a similar tradition in Greek philosophy, these terms have tentatively been considered acceptable. However, in essence ataia means that objective

- 1. That'is because atman has been spoken of as being the cause of the phenomenon. Atman is obviously taken as synonymous with Brahman.
- 2. Akasa is translated as ether, because that is the general practice; and also because there is no other proper word for it in the English language.
- 3. Ether is the first evolute from which other elements evolve later in their respective order.
- 4. The word 'tatah' of the text, means 'thereafter'. The doctrine of the physical evolution, represented here, holds that from Atman or Brahman emanates ether, from ether air, from air fire, from fire water and from water is evolved earth; and accordingly, they are dissolved back one by one unto Brahman.
- 5. Mahabhūta-s, the great elements represent the gross manifestation of Brahman before pañctkaraņa (amalgamation).
- 6. Brahman, as conditioned by these universal elements is known as viroj. The word vioj literally means luminous, splendour. It is held in this doctrine that Brahman, having created the five universal elements, entered into them The physical world has no existence apart from the intelligent principle; and thus, no real difference is conceived between the creator and the creation.

Brahman^{*} created *Brahma* and having handed over the *veda-s*^{*} to him, it caused ^{*} him to create the physical world

reality, which is the substratum of sound perceived by the ear; va_{ju} denotes the element through which the perception of touch takes place; anala (also called agni or tejas etc.) is the element that is responsible for the perception of colour; jala is the element that is responsible for the perception of taste; and ρ_{l} is the element that produces the perception of odour. Thus these elements are conceived on the basis of five types of perception to which they respectively correspond. These elements are quite different from the elements of modern science.

Then, these elements produce the physical universe, which is essentially perceptive and has consciousness as its basis, by the process of permutation and combination in various proportions, known as *pañctkaraņa* in vedāntic parlance. That, however, involves too great a divergence from the subject of this text.

This physical universe is conceived to constitute a body, a form, to *Brahman*, the formless; who therefore is given a different name viz., *Viraj* to distinguish it from the unconditioned *Brahman*.

Brahman, conditioned by the five universal elements, called Viraj is not yet in the position to create the physical world; since the elements are in the state of equilibrium before the process of Pañetkarana takes place, i.e., before they intermingle in ratio and proportion. But the act of creation is possible through Brahman only while it is conditioned by the universal elements in terms of physical manifestation, and by the universal nescience, in terms of psychological manifestation. Thus, even though the author has not clearly stated in the text, it is implied

- 8. Brahmā is a symbolic figure of the puranic mythology, having four faces. Each of his faces is supposed to give expression to each of the four vedas. He is considered to symbolise the creative aspect of Brahman in the trinity of Brahmā, Vişņu and Śiva, the last two being responsible for the maintenance of the creation and the dissolution of the phenomenon. Obviously, the author is presenting a synthesis of the vedic and the puranic traditions.
- 9. That is how Brahman is the final cause, though it is Brahman who actually creates, yet he is inspired by Brahman to do so.
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^{7. &#}x27;K' identifies Viràj with the four faced Brahmā of the puraņā-s and thus attributes the act of creation directly to the unconditioned Brahman, 'Brahma virādrupam Brahmaņam caturmukham asījat'. However, this does not accord well with the metaphysical doctrine of Bhedābheda system.

through¹⁰ the words of the veda-s. (14)

By his¹¹ command Brahmā created through¹³ his mind, the Prajāpati-s¹⁸, and from them the seminal¹⁴ creation of bodies is being expounded.¹⁵

in the context that Brahman, as conditioned by the five universal elements created Brahma, the progenitor of all the beings and the physical world inhabited by them. However, the Vedu proclaims Viraj to be the first progeny of Puruşa; Tasmad Viradajajayata (Rv. 10.90.5). But then in vedic mythology, Brahma possibly has no such place. Thus obviously, our author has synthesised the concept of Viraj and Brahma in this doctrine. In this context Brahman is not differentiated from Viraj, which has been spoken of as Saguna-brahman in the puranic parlance. Indeed, perhaps that is why 'S' has equated Brahman of this verse with Isvara of the ved anta philosophy.

- 10. The creation takes place through the word, as codified in the vedas. The vedas in the Indian tradition are considered to be 'apauruseya', i.e., literally, beyond human authorship. Since creation and dissolution in the author's view form a unitary movement, the creation takes place through the word of the vedas which, through the process of association give rise to the form as ideas in the universal mind, which then creates the world according to those ideas, the latent seeds.
- 11. That is, Virāj; it is notable that here 'K' also interprets it as such.
- 12. That is, by his will power.
- 13. Literally, the word *prajapati* means the lord of creatures, of all the created beings. There have been many *prajapatis* and their number differs from seven to twenty-one, according to different accounts. *Prajapati* originally seems to be a god of the vedic hymns who was later raised to the status similar to that of *Brahma* in the *sūtras*. But later in the *purānas*, the word *prajapati* became more or less an appellation of the founders of the great dynasties such as *Marici*, *Atri, Angiras*, *Pulastya*, etc. <u>However</u>, in the present context *prajapati-s* are conceived as the mental progeny of the creator, *Brahma*.

14. Retas, literally means 'semen', but the expression is metaphorical and signifies the product of copulation, i. e., the creation that takes place as a result of the opposites coming together.

(vii) भौतिकदेहभेदाः

स्वेदोद्भेदजराय्वण्डहेतुभेदाच्चतुर्विधम् । देहं यूकाऽऽदिनः स्वेदादुद्भेदात्तु लताऽऽदिनः ॥१६॥ जरायोर्मानुषादीनामण्डात्तु विहगादिनः ।

(viii) मानुषदेहाभिधाने हेतुः तत्र नादोपयोगित्वान्मानुषं देहमुच्यते ।।१७।।

(vii) Types of physical bodies : 16-17b

The body is of four types, depending on the nature of its cause, viz., sweat, sprout, womb¹ and egg; such as louse etc., from sweat, creeper etc., from the sprout, human being etc., from the womb and birds etc., from the egg.² (16-17b)

(viii) The purpose of dealing with the human body: 17cd

Of the above (four), the human body¹, being suitable for (the manifestation of) $n\bar{a}da$ is dealt with (here). (17cd)

The Ayurvedic classification of the manifestation of life is substantially different and quite comprehensive. It comprehends life under three main heads, viz., jangama (animals), audbhid (plants) and parthipa (minerals). The jangama (animal class) is subdivided into jarayuja, andaja, suedaja (all the three given in the text) and udbhijia, the last of which comprises of animals in hybernation etc. that remain unmanifest for a certain period of time concealed in the soil, and develop only during particular seasonal conditions. The author has identified the vegetable kingdom with udbheda rather than the fourth category of animals spoken of in the Ayurvedic tradition. The inclusion of creepers etc. under types of bodies does not seem to be as scientific as the udbhijja class of Ayurveda. The author's classification, however, appears to follow the puranic tradition.

- 1. The word jardju of the text precisely means the outer layer of foetus, and technically refers to the viviparous creatures.
- 2. Ad. ed of S. R. reads "and atta" instead of "and atta" wherein tu seems to have been used as a conjunctive.
- I. That is why the author has introduced this section on human embodiment in a musical treatise. Also, this provides the reason for dealing with the human body only from out of the four types.

Section 2 : The Genesis of the Human Embodiment 37 cloud-formation⁸ and from the cloud-formation into the cloud. (18)

The sun, being satiated⁴ by the oblations and surrounded by vapours drawn by its rays in the summer,⁸ confines the waters in the clouds. When the clouds release the waters, the self-conscious intelligent being,⁶ descending with the showers, transfers itself imperceptibly⁷ to the terrestrial growth of trees and herbs. This⁸ (vegetation) becomes food; and when eaten by men, is transformed into semen; which, being sprinkled in the temple⁹ of love in the body of a young

The process of the descent of the thought-embodied intelligence into the physical human organism follows the general pattern of the evolution of the five great elements, viz., from ether to air, from air to fire as associated with smoke, and from fire to water as associated with cloud, and from water to earth, through vegetation. Having entered the vegetation it remains a matter of course for it to reach an appropriate womb for its physical encasement.

- 3. Abhra of the text signifies a cloud-formation devoid of water, so to say, a combination of smoke, light and air, while Megha signifies the cloud proper full of water.
- 4. In the Indian tradition the sun is offered oblations in the sacrificial fire. The gods, in this view, have nothing to eat in their heavenly abode and have to be nourished through the sacrificial oblations offered by human beings.
- 5. This is significant in the context of Indian climate. The sun is supposed to draw the waters of the Indian ocean in summer through the sun's rays that fall directly upon it and collect them in the clouds, and this is a statement of a geographical fact, the phenomenon of monsoon.
- 6. Jiva is conceived to be pure intelligence conditioned by selfconsciousness.
- 7. Since consciousness is not an object of sense perception, the the journey of the soul from the thought body to the physical body is imperceptible outwardly
- 8. What is notable here is that the self-aware intelligence or, in other terms, the individual soul can never keep an identity without a physical vehicle. So in fact the whole journey is a process of the movement from a purely ideal body to a physical one. Thus it is also a process of evolution or manifestation from the subtle to the gross. Food also is a vehicle for the self-enclosed consciousness and so is semen into which it is transformed.
- 9. The temple of love spoken of here refers metaphorically to the vagina.

Treatment of Svara

(ix) जीवस्य गर्भाश्ययेऽवतरणम्

क्षेत्रज्ञः स्थित आकाश आकाशाद्वायुमागतः । ततरचाभ्रमभ्रान्मेघे ऽवतिष्ठते ।।१८।। वायोर्षमं आहत्या ऽऽप्यायितो ग्रस्तरसो ग्रीष्मे च भानुभिः । भानूमेंघे घनरसं निधत्ते तं वलाहकः ।।१९।। यदा वर्षति वर्षेण सह जीवस्तदा भुवः । वनस्पत्योषधीर्जाताः संक्रामत्यविलक्षितः ।।२०।। ताम्यो ऽन्नं जातमन्नं तत्पुरुषैः शुक्लतां गतम । शत्वार्त्तवाया योषाया निषिक्तं स्मरमन्दिरे ॥२१॥ सहार्तवेन चेदगर्भाशयगतं भवेत् । शद्धं गर्भमारभते जीवकर्मप्रेरितं तद् तदा ॥२२॥

(ix) The descent of jiva into the womb j18-22

The self-aware¹ intelligence, the resident² of ether, descends into air; and from air into smoke, from smoke into

The embodied self, i. e., the self-aware intelligence, has already been spoken of as having two bodies, subtle and gross. Here the process of the physical, i. e., gross embodiment is being described, and therefore, the thought-body is taken for granted to be existent in the form of etheric vibrations as the residue of past incarnation of the individual self or soul who is called $ksetraj\bar{n}a$, which signifies intelligence involved in the self-conscious individual being.

Thus ksetra and ksetrajña may roughly be understood as the field of consciousness and consciousness subsisting in the awareness of the field. The deeper significance of these terms would be clear from the next verse.

"Oh, Arjuna, understand that I am the $k_{setraj\tilde{n}a}$ (intelligence) in all the $k_{setra-s}$ (organisms). The comprehension of the body and the soul is considered to be my knowledge."

2. It is assumed that thought body is made of subtle matter in

^{1.} The word ksetrajña of the text literally means the knower of the field, i. e., the observer, the witness of the field of consciousness. The word ksetra also means an abode: so, by implication the word signifies the body. Ksetrajña thus means the soul or intelligence as conditioned by self-consciousness; and here, the word is used in this technical sense. cf. Bh. Gita XII. 1 & 2. "This organism, oh! Arjuna, is named as ksetra (the field); and the one who is aware of it is called as ksetrajña (the perceiver of the field) by the experts." (13.1)

ग. पिण्डोत्पत्तात्रायुर्वेदानुसारि निरूपणम् (i) गभस्य वृद्धिक्रमः द्रवत्वं प्रथमे मासि कललाख्यं प्रजायते । द्वितीये तु घनः पिण्डः पेशोषद्धनमर्बुदम् ॥२३॥ पुंस्त्रीनपुंसकानां स्युः प्रागवस्थाः क्रमादिमाः । तृतीये त्वङ्कूराः पश्च कराङ्घ्रिशिरसो मताः ॥२४॥

woman in her proper course¹⁰, on entering the uterus, if¹¹ pure, unites with ovum: and then, being¹² impelled by the accumulated residual action of the individual, it begins to develop into the foetus. (19-22).

C. Genesis : The physiological viewpoint

(i) The development of the embryo : 23-41

In the first month a gelatinous substance (called *kalala*) comes into being; in the second a hardened mass in the form

Now, the author goes on to describe the various stages through which the embryo develops during the entire period of pregnancy and connected matters. From a comparative study of the monumental works of Indian medicine and surgery by Caraka and Susruta, it appears that our

10. Literally, suddhartava means pure menstrual discharge. This refers to the suitable period of the monthly course, i. e., the particular days after the menses, considered as opportune for the union of the sperm and the ovum. But, more than that, the suddhartava of the text refers to the ideal physical fitness of a woman for conceiving a child. The test for the required purity of the blood of the mensurual flow as quoted by 'K' is that it should be of the colour, as red as the solution of lac or its spots on cloth should be capable of being washed clean. The word artava technically means the catamenial fluid.

11. The semen should also be of a certain standard. As, 'K' quotes, semen to be fit for procreating should be strong, heavy, viscous, sweet and profuse.

12. According to the Hindu view of life, fertilisation of a sperm and an ovum is not a mechanical process, but the soul destined to be embodied in the foetus is the intelligent force guided by its residual action (Karma), without which no conception can materialise. 39

सुक्ष्माः स्युर्युगपत्तवा । अङ्गप्रत्यङ्गभागाश्च श्मश्रदन्तादीञ्जन्मानन्तरसंभवान् ॥२४॥ विहाय एषा प्रकृतिरन्या तु विकृतिः संमता सताम् । चतर्थे व्यक्तता तेषां भावानामपि जायते ॥२६॥ पंसां शौर्यादयो भावा भीरुत्वाद्यास्तू योषिताम् । नपुंसकानां संकीर्णा भवन्तीति प्रचक्षते ॥२७॥ चास्य हृदयं विषयानभिकाङ्क्षति । मातृजं मातूर्मनोऽभीष्टं कूर्याद्गर्भसमृद्धये ॥२६॥ अतो तां च द्विहृदयां नारीमाहदौँहृदिनीं बुधाः । अदानाद्दोहदानां स्युर्गर्भस्य व्यङ्गताऽऽदयः ॥२९॥ मातुर्यद्विषयालाभस्तदातौ जायते सुतः । स्यादर्थवान्भोगी गर्भः वोहदाद्राजदर्शने ।।३०।। अलङ्कारेष् ललितो धर्मिष्ठस्तापसाश्रमे । हिस्रो भुजगदर्शने ॥३१॥ देवतादर्शने भक्तो तु निद्रालुर्बली गोमांसभक्षणे । गोधाऽशने शुकरक्ताक्षं लोमशं सूयते सुतम् ।।३२।। माहिषे चित्तं मांसशोणितपुष्टता । पञ्चमे प्रबुद्धं ऽस्थिस्नायूनखरकेशरोमविविक्तता ।।३३।। षष्ठे चोपचितौ सप्तमे त्वङ्गपूर्णता । बलवणौ पाल्यन्तरितहस्ताभ्यां श्रोत्ररन्ध्रे पिधाय सः ॥३४॥ उद्विग्नो गर्भसंवासादास्ते गर्भाशयान्वितः । स्मरन्यूर्वानुभूताः स नानाजातीश्च यातनाः ॥३५॥ मोक्षोपायमभिष्धायन्वर्तते ऽभ्यासतत्परः । अब्टमे त्वक्स्मृतो स्यातामोजश्चेतच्च हुद्भवम् ॥३६॥ शद्धमापीतरक्तं च निमित्तं जीविते मतम । पनगंभं चश्वलं पतरम्बां तत्प्रधावति ।।३७।।

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Treatment of Svara

अतो जातो ऽष्टमे मासि न जीवत्योजसोज्झितः । किचित्कालमवस्थानं संस्कारात्खण्डिताङ्गवत् ॥३८॥ समयः प्रसवस्य स्यान्मासेषु नवमाविषु । मातू रसवहां नाडीमनुबद्धा पराऽभिधा ॥३९॥ नाभिस्थनाडी गर्भस्य मात्राहाररसावहा । कृताञ्ज्जलिर्ललाटे ऽसौ मातृपृष्ठमभि स्थितः ॥४०॥ अध्यास्ते संकुचद्गात्रो गर्भं दक्षिणपार्श्वगः । वामपार्श्वस्थिता नारी क्लोबं मध्यस्थितं मतम् ॥४१॥

of a ball¹, a tendon² or an egg³, indicative of the preliminary stage of the male, female and a eunuch respectively. In the third month emerge the five⁴ organic⁵ seedlings, viz., hands, feet and the head. (23-24)

author, who is known to be a medical practitioner himself, has based this Section of his work mainly on these two authorities, though he also seems to have consulted subsequent literature on the subject. Therefore parallel references are offered here for a detailed and authoritative study

- 1. Pinda of the text corresponds to a lump which is stated by 'K' to be round. 'S' connects pinda with pest and interprets that, if the pinda, in the sense of a lump of flesh, is like a pest, then it is indicative of a male issue; and consequently further he interprets 1sadghana, i.e., 'slightly in a solid condition' to be indicative of a female child; and arbudam, i.e., 'like a bud of a tamarind tree' to be indicative of neutral gender. But obviously this construction does not seem to be correct, specially in the light of Susruta and Caraka.
- 2. Pest is not in so solid a condition as to form a lump. So it is like a muscle more or less. K.R. says, pest is a square piece. The word pest also means foetus shortly after conception.
- 3. Arbudam: 'K' asserts that arbudam is of the shape of a bud of tamarind tree according to the physicians. The word literally, in this context, means a long round mass, tumor like; but here, it has been used in a technical sense.
- 4. Two hands, two feet and the head, technically make the five. However, as suggested by 'K', the seedling of the head includes the neck, two eyes, two nostrils, two ears, etc. as its parts; the seedling for hands includes, shoulders, elbow, wrist fingers, wrist, etc. and the seedling for feet includes thighs, knees, legs. ankles, toes etc.
- 5. Atkura of the text literally means a sprout or a seedling but

Apart from the beard, teeth and the like, that grow after the birth, an imperceptible⁶ and simultaneous development⁷ takes place in all the limbs, sub-organs and their parts. This is the natural course⁶, while anything contrary to it is considered by the wise to be unnatural⁹. (25-26 b)

In the fourth (month) these (organs) are distinctly developed; and so also the mental states¹⁰ come into being, such as valour among men, timidity among women and

of the particular topics dealt with in this Section. Obviously, Sarngadeva has been not only very precise but also very brief in his presentation, as indeed he everywhere is, throughout his entire work.

In the first month the sperm as united with the ovum forms into a jelly-like substance in a liquid condition, the five elements of which, under the impact of cold, heat and wind solidify in the second month into a mass. This mass, according to our author, forms in three shapes, viz. a ball-like round shape, a tendon like oblong, and an egg like oval shape, each of which indicates respectively the masculine, feminine and the neuter gender. This is the rudimentary stage and the second month. This view is based on Caraka and Suśruta (cf., Śā. Sthā 4.9 10 and 3.18-19 respectively).

In the third month five protuberances appear in the solidified mass of flesh at the five places where the five organs have to be, while the minor limbs and their parts are formed in the shape of very minute papillae (cf., Caraka Śā. Sthā. 4.11 and Suśruta Śā. Sthā. 3.20).

In the fourth month all the limbs and the organs and parts thereof are fully developed. Since the viscus of the heart too is developed and

- 7. That is, the entire growth takes place as soon as the seedlings have sprouted.
- 8. Prakti is natural disposition or tendency, so uniform development is the natural course of growth.
- 9. Viktii is deformation, any development that takes place contrary to the order of nature with respect to the process of growth in the viviparous animals.
- 10. 'K' interprets the word *bhava*, here, in the sense of latent tendency; obviou ly, latent in the causal body and manifesting itself now in the physical body. *Bhava* is a state of being, a subject in relationship with a situation.

^{6.} The process of growth is slow and uniform, that is why it is said to be imperceptible.

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indistinctiveness¹¹ among hermaphrodites; that is, how it is said.¹³ (26c-27)

The heart of the embryo is a product of its mother¹⁸ and so it craves for enjoyment.¹⁴ Therefore the wishes of the mother should be respected¹⁵ for the growth¹⁶ of the foetus. (28)

the heart is considered to be the scat of consciousness, the embryo is endowed with feeling, so much so that the desire for enjoyment is awakened in it, which operates through the longing of the mother (cf., Suśrura Śā. Sthā. 3.21). Our author is suggesting that the embryo is capable of mental states such as valour and timidity. But these are taken as examples, what is important to note is that it is the fourth month itself that endows the embryo with consciousness and craving for experience.

The heart of the embryo is fashioned after the heart of the mother as the author tells subsequently (verse 45) in this Section and here too. The word heart is symbolic of the faculty of conation, of feeling and will, of emotion and desire. 'K' interprets the text to mean that the heart of the embryo as well as that of the mother beat in unison; they form a unity, analogous to that of the twins. So the enceinte is named twinhearted. The cravings of the mother and the child are related in identity

- 11. The word sanking of the text literally, in this context, means 'petty', undeveloped, closed, i. e., devoid of manly or womanly predilections.
- 12. Obviously, the author is not sure of the scientific basis for this concept, so he attributes it to the general opinion as it was prevalent.
- 13. According to 'K' the heart of the embryo (as well as of the mother, the two being one in essence) desires, craves for particular sensations. Literally, the text reads "its heart is a product of its mother."

14. Vişayan of the text literally means sense objects. The embryo cannot possibly have a longing for the sense objects, for he does not perceive them. So it is the heart of the mother enjoined to that of the embryo that desires sense objects. But indeed, since the embryo is endowed with consciousness it is supposed to have longings for particular sensations which the mother can relate to particular sense objects by intuition or the suggestions of the subconscious mind.

- 15. That is, as far as possible the wishes of an enceinte should be fulfilled.
- 16. Samtddhi of the text literally means enrichment, i. e., physical and mental growth, i. e., development.

Such a woman with two hearts (as it were) is called twin-hearted by the wise. If the wishes of pregnancy¹⁷ are not respected, deformity of organs may occur in the embryo; for whatever is denied to the enceinte becomes a cause of discomfort¹⁸ to it the embryo).¹⁰ (29-30b)

If the pregnancy wish²⁰ pertains to royal audience, the child²¹ would be wealthy, reveller of enjoyments and fond of ornamentation²², if it pertains to visiting a hermitage, the child would be of righteous disposition; if it pertains to visiting a temple²⁸, the child would be a devotee (of

and therefore the unfulfilled desires of the enceinte (pregnant woman) are likely, not only to cause mental complications is her mind, but those complexes react on the consciousness of the embryo, so much so that the nongratification of any desire for a particular sensation during gestation tends to adversely affect that particular sense organ of the child (cf, Suśruta Śā. Sthā. 3.21). The fulfilment of such desires is conducive to a healthy progeny.

There is a very close relationship between the mother and the foetus, and this relationship is not only physiological but also psychological; this latter aspect is sought to be demonstrated by detailing the effect of

- 17. Dohada of the text technically. means the wishes of an enceinte, and the objects of those wishes are also called Dohada-s.
- 18. The text literally interpreted would mean 'By whatever (object of enjoyment) the mother is deprived, the child born is illformed by it (i. e., not properly developed with reference to that particular sense organ).
- 19. Literally translated, it is the 'son', for a male issue is generally desired.
- 20. The longings and wishes of the enceinte during the period of gestation have been named as 'pregnancy wishes', i.e., the dohada-s of the text.
- 21. Lit. the son.
- 22. K.R. translates the first line of verse 31 as—"(If she spends her time) in the herinitage of sage, (he will be) indifferent to ornaments and devoted to virtue", obviously, he construes 'alathkareşu lalitak' with 'dharmiş!hastapasā śrame'. It is, however, not clear why it can be so construed.
- 23. Devata-dariana of the text literally means a desire for being in direct communion with a deity. In view of the widespread image worship in India, obviously the desire can only pertain to visiting the deity as represented by an idol in a temple. The word dariana, in India, is used in the most profound sense of communion, as well as, 'having a look at'.

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God); if it pertains to seeing a snake, the child would be violent in nature; if it pertains to eating (the flesh of) an alligator²⁴, the child would be addicted to sleep; if it pertains to eating beef, the child would be strong, if it pertains to eating buffallo meat, the child²⁵ would have red eyes like those of a parrot and a hairy body. (30c-32)

The consciousness awakens in the fifth (month) and there is sufficient addition to flesh and blood. In the sixth (month) the bones, sinews²⁶ nails, hair on the head and the limbs²⁷ appear distinctly and there is an augmentation of energy²⁸ and complexion. In the seventh (month) the completion of organs takes place. (33-34b)

the m ntal conditions, desires, and longings of the enceinte during the period of gestation on the nature of the child after its birth. Much of what has been said seems to be based on Suśruta with minor variations (cf., Śā. Sthā. 3. 26-34), where it is suggest d towards the end of this topic that the pregnancy wishes of the enceinte are not so much due to the personal disposition of the mother, as due to the cumulative effect of the incomplete action (karma) of the child in previous lives.

In the fifth month, the thought body is revived and intelligence begins to function through the mind. In other words, there is an awakening of consciousness in terms of self-awareness. According to 'K' the inner instrument, i.e., the mind which was dormant, opens up to the movement of life, i.e., becomes sensitive. When this particular statement (33ab) is read in conjunction with verse no. 35, it becomes

- 24. The dictionary meaning of the word godha is alligator. But K.R. has rendered it as 'wheat', which does not seem to be very significant, since wheat forms a staple food, more or less for all; and moreover it is difficult to say how he derives this meaning.
- 25. Again literally, the text would mean 'the son'.

26. The dictionary meaning of the word snayu is tendon, sinew, muscle. 'K' interprets it as suksma sira. Sira generally stands for any tubular vessel but specifically for vein: thus, he means a subtle vein Sinew is a fibrous tissue uniting muscle to bone. It seems that even 'K' means sinew by his subtle vein.

- 27. Kesa and roma are hair on the head, and all over the body, respectively. Probably we do not have separate words to indicate this difference in English.
- 28. Ojas of the text not only means physical strength but also vigour or energy in general, including splendour consequent upon a full bloom of the organism.

The embryo, with the cavities of ears covered by its hands held in-between the two thighs, being afflicted by its stay in the environment of the womb, recalls the experiences of past lives along with the torments of various types, and contemplating²⁰ the means of freedom, remains self-absorbed. (34c-36b)

Skin and memory⁸⁰ develop in the eighth month. Ojas³¹ the essence of vitality, pure and of yellowish red hue,

clear that the author points out the psychological process of the revival of the thought body, the subtle vehicle that survives the death of the gross body but remains inactive till the fifth month of gestation. It is said, as it is implied in the text that, the individual soul witnesses the revival of the experiences, the torments and the unfulfilled desires of past lives and slowly gains self-awareness. Being self-aware, the selfconscious individual tired of remaining in the closed atmosphere of foetus, contemplates upon the means of release from the womb; and thus, cooperates with the mother in her mental disposition of delivering the child safely (cf., Caraka Śā. Stha. 4.21-23 and Suśruta Śa. Sthā. 3.33-37).

Incidentally, the author also reveals the position of the embryo at this stage of the development in the womb, which, as 'K' points out, is upside down with limbs drawn in, the car-cavities being covered by hands held in-between the two thighs.

It is worthwhile to compare this period of gestation as dealt with by Caraka and Suśruta (cf., Śā.Sthā. 4. 21-23 and 3.35-37 respectively). For the fifth month, Caraka agrees only as far as addition to flesh and blood is spoken of, and maintains that the enceinte feels languor particularly in this month. According to him, this process continues in the sixth month on a greater scale. In the seventh month the foetus is complete in all the elements physical as well as psychological, and the enceinte feels greatly fatigued. Suśruta speaks of mental awakening in the fifth month and the development of the intellect in the sixth month, while in the seventh, all the organs and the suborgans of the body are fully and distinctly developed.

- 29. The line 36ab of the text has been translated with the underlying idea in view.
- **30.** 'S' reads as *toakśruti* instead of *toaksmțti* which is a text variant The significance of this reading has been related above.
- 31. 'S' explains ojas as an essential element, while 'K' explains it

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residing in the heart³³ and considered to be the sustaining force of life, being unstable, fluctuates rapidly in-between the mother and the foetus; that is why the eighth month issue. being deprived of the life-force, does not survive³⁸; and if it does for a while, it is due to the force of momentum, like a dismembered limb. (36c-38)

Thus, the author seems to have relied on these sources put together as far as the physiological details of embryology are concerned. But he has supplemented this account with the essentials of corresponding purapic tradition (cf., Srimad-bhagavatam III. 31) as far as the psychological and the philosophical aspects of the origin and development of the life-principle are concerned.

The author has already spoken of complexion in the sixth month and of past recollections in the seventh month; thus, under the circumstance, 'K' raises the question as to why he once again speaks of the skin and memory; and then he offers to explain that, in the eighth month the skin becomes compact and thick and memory brings in the element of choice, i.e., the operation of will. However, 'S'reads sruti instead of smpti. He therefore interprets that the embryo is able to listen to outside sounds, and he rather warns us not to identify sruti with the sense of hearing.

In the ayurvedic system, ojas is considered to be the principle of vital warmth and action throughout the body. It is difficult to identify this life-principle in terms of modern anatomy. However, the statement of the author is well-supported by Caraka and Susruta (cf., Sa. Stha. 424 & 3.38 respectively). 'K' elucidates ojas as 'bright pithy, substance' which is said to be pure in so for as it is not vitiated by the impurities of the atmosphere outside the body. It is slightly of yellowish tinge on a red base, and is produced by and resides in the heart; its function is to regulate and to support the movement of the vital breath in the body. The purport of the text is that in the eighth month the life principle, i.e., the vital force that regulates the flow of the vital breath, becomes unsteady and alternately moves from the embryo. Consequently, as explained by 'K', if the child is born in the eighth month while the vital force is residing with the mother, the

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The parturition⁸⁴ takes place after the ninth⁸⁵ month commences. (39 ab)

The placenta⁸⁶ of the foetus is joined to the lymphatic vessels⁸ of the mother by the umbilical cord, through

child dies as soon as it is born; but if the vital force is with the child at the time of delivery, it is the mother who dies; and in case the vital force is in transit, both the mother and the child may not survive. "K.R.' finds in this statement a probable explanation of still birth. To a possible objection that sometimes the eighth month issues are also observed to be alive for some time after their birth, the author offers an explanation: just as when a limb is cut off from the body, it keeps on throbbing for sometime due to the momentum of the breath left in it, so also the child born in the eighth month, even though devoid of the vital force in its entirety, yet lives for sometime, its organism having been vitalised by it shortly before the delivery; in other words, it lives till the momentum of the vital force lasts.

What is the normal time for the delivery of the child, is the question considered here. Delivery, according to our author, may normally take place any time after the ninth month commences. The expression navamadi in the text implies, as noted by 'K', that it may even take place in the tenth or in the eleventh month as well. This contention seems to be supported by Susruta (cf., Sa. Stha. 3.39) who even visualises the possibility of parturition taking place in the twelfth month in exceptional cases, beyond which he declares it to be indicative of something wrong. Caraka too seems to be of the same opinion (cf., Sa. Stha. 4.25). He says that the ninth month would commence even after one day upon the completion of the eighth month, and that the delivery can take place normally from the ninth to the twelfth month, beyond which something wrong must be inferred. Obviously all agree as to the minimum period of gestation, which is eight completed months.

- 34. The delivery of the child.
- Navamadi of the text implies literally beginning with the ninth 35. month (from conception).
- Placenta is defined in the dictionary as, flattened circular spongy vascular organ in higher mammals, expelled in partu-36. rition after nourishing foetus which is attached to it by umbilical cord. Para-nadt is identified with placenta.
 - Rasavaha nadt etymologically means the vein or artery carrying
- 37. assimilated food.

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^{32.} Produced by the heart in the sense that it resides in the heart, according to 'K'.

^{33.} That the eighth month issue does not live, does not necessarily imply the completion of the 8th month for the child to live, but implies rather the death of either the child or the mother as explained above.

which the essence of lymph-chyle⁸⁶ produced from the assimilated food of the mother enters into its organism. (39c-40b)

With hands folded⁶⁰ over the forehead and the limbs flexed⁴¹, the embryo stays by the mother's back. As it is believed, if it is in the right side of the womb, it is a male⁴², if in the left side, a female and if in the centre, a hermaphrodite. (40e-41)

Here, the process by which the foetus is nourished is described, though not in sufficient detail. The translation of this passage presents the essential fact. Literally rendered the text would read:-

"The mother's rasavaha nadt is joined to the para-nadt that originates from the navel and carries mother's assimilated food to the foetus." Susruta (Sa. Stha. 3.40) reads in substance as under-"The umbilical cord (nad1) of the foetus is found to be attached to the cavity of the vein or artery of its maternal part through which the essence of lymphchyle (rasa) produced from the assimilated food of the mother, enters into its organism and fastens its growth and development (a fact which may be understood from the analogy of percolation or transudation of blood). Immediately after the completion of the process of fecundation, the vessels (dhamant) of its maternal body which carry the lymph-chyle (rasa) and run laterally and longitudinally in all directions tend to foster the foetus with their own transudation all through its continuance in the womb."80

The author is describing here, the position of the embryo in the parturient's womb and the process of parturition. As regards the position of the embryo in the womb and its relationship to the sex of the child, it appears that the author is referring to a generally accepted idea as it is implied by his expression 'matam'.

- 38. Rasa, in this context, means the solution of the assimilated food.
- 39. Reproduced from Eng. trans. by Kaviraja Kunjalal Bhishagratna, M.R.A.S. Vol. 11, pub. Chowkhamba Sanskrit Series Office, Varanasi, India.
- 40. Folded in the posture of salutation.
- 41. The limbs are not stretched but are contracted and drawn in together, flexed.
- 42. The sense is implied in the text,

(ii) बालकस्य जन्म

क्रियते ऽधःशिराः सुतिमारुतैः प्रबलैस्ततः । निःसार्यते रुजद्गात्रो यन्त्रचिछद्रेण बालकः ॥४२॥

(iii) जीवस्य नित्यता (अनुमिता) जातमात्रस्य तस्याथ प्रवृत्तिः स्तन्यगोचरा । प्राग्जन्मबोधसंस्कारादिति जीवस्य नित्यता ॥४३॥

(ii) The birth of the child: 42

As it is turned upside down by the strong force of the parturition¹-winds it² is ejected through the vagina, its limbs being afflicted (through the passage). (42)

(iii) The eternity of Jiva (inferred): 43

Immediately (after the birth), the newborn baby has the tendency of sucking at the breast due to the psychological impressions of past life, and this incidentally proves the immortality of the soul. (43)

The author draws our attention to the inborn tendency of the newborn baby to suck at the mother's breast. The question is, who trains or educates and informs the baby to perform this act. It is almost instinctive and mechanical. The author therefore infers, by deduction. the habit built up in the past lives, and thereby he concludes that the death of the physical organism does not mean the total annihilation of the individual. Obviously, the thought-body is there, already spoken of by the author, to carry over mental impressions to the next life. It does not, therefore, necessarily follow for this reason, that the soul is timeless. It seems that, the author finds a spiritual substratum for psychological memory in what he calls the soul; and therefore, it is this substratum as the witness of all mental phenomenon that, he says, is timeless. (43)

^{1.} The process of parturition sets in motion the prana that pushes the embryo out.

^{2.} Child as per the text,

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(iv) देहस्य षड् भावाः

भावाः स्युः षड्विधास्तस्य मातृजाः पितृजास्तथा । रसजा आत्मजाः सत्त्वसंभवाः सात्म्यजास्तथा ॥४४॥ मृववः शोणितं मेदो मज्जा प्लीहा यक्रुद् गुदम् । द्वन्नाभोत्येवमाद्यास्तु भावा मातृभवा मताः ॥४४॥ इन्नाभोत्येवमाद्यास्तु भावा मातृभवा मताः ॥४४॥ समञ्जुलोमकचाः स्नायुसिराधमनयो नखाः । दशनाः शुक्लमित्याद्याः स्थिराः पितृसमुद्भवाः ॥४६॥ शरीरोपचयो वर्णो वृद्धिः सुप्तिर्बलं स्थितिः । शतोलुपत्वमुत्साह इत्यादोन्रसजान्विदुः ॥४७॥ इच्छा द्वेषः सुखं दुःखं धर्माधमौ च भावना । प्रयत्नो ज्ञानमायुश्चेन्द्रियाणीत्यात्मजा मताः ॥४५॥

ज्ञानेन्द्रियाणि अवणं स्पर्शनं दर्शनं तथा। रसनं घ्राणमित्याहुः पश्व तेषां तु गोचराः ॥४९।।

शब्दः स्पर्शस्तथा रूपं रसो गन्ध इति क्रमात् । वाक्कराङ्घ्रिगुदोपस्थानाहुः कर्मेन्द्रियाणि तु ।।४०।। वचनादानगमनविसर्गरतयः क्रमात् । क्रियास्तेषां,

मनो बुद्धिरित्यन्तःकरणद्वयम् ॥ ११॥ सुखं दुःखं च विषयौ विज्ञेयौ मनसः क्रिया । स्मृतिभ्रान्तिविकल्पाद्या धियो ऽध्यवतित्मिता ॥ १२॥ ब्रह्मयोनीनीन्द्रियाणि भौतिकान्यपरे जगुः । सत्त्वाख्यमन्तःकरणं गुणभेदात्त्रिधा मतम् ॥ १३॥ सत्त्वं रजस्तम इति गुणाः सत्त्वात्तु सात्त्विकात् । आस्तिक्यशुद्धधर्मेकरुचिप्रभृतयो मताः ॥ १४॥ सत्त्वात्तु राजसाद्भावाः कामक्रोधमदादयः । निद्राऽऽलस्यप्रमादात्विञ्चनाद्यास्तु तामसात् ॥ १४॥

२८----- सात्म्यजाः ।

(iv) The six substances (bhāva-s) of the (foetal) body : 44-56b

[•] There are six types of substances¹ (involved) in the body (of the baby), viz., maternal², paternal⁸, the serological⁴, the self-created⁵, the mental⁶ and the self-adapted.⁷ (44)

Delicate parts such as blood, fat, marrow, spleen, liver, anus, heart, umbilicus, etc. are considered to be of motherly origin; while the beard, hair on the body and the head, nerves, veins, arteries, nails, teeth and semen etc. of tougher stuff are of fatherly origin. (45-46)

Now, the author goes on to describe in some detail the various parts and the elements in the body of the embryo as they are contributed by six different principles that are apprehended as derived from the mother, the father, the food, the soul, the mind and the innate physiological conditions inherited by the foetus. This agrees in substance with Suśruta (cf., Śā. Sthā. 3.43 and Caraka Śā. Sthā. 3.12-20 who is more elaborate).

Now, the author goes to describe in detail, though by no means exhaustively, the different parts and the principles of the body and the mind of the embryo, as they are distinctly contributed by the six substances already spoken of. The entire description seems to have been based on Suśruta (Sā. Sthā. 3.43) with minor differences, Caraka (Śa. Sthā. 3.12, 13) deals with this subject in greater detail.

- 3. Pittja, literally means, 'derived from the father'.
- 4. Rasaja, literally means, derived from 'rasa', i. e., serum in this context.
- 5. Atmaja, literally means, 'pertaining to the transmigratory self', i. e., the individual soul.
- 6. Sattva is used in the sense of mind.
- 7. Satmyaja implies acquired by adaptation and habit.

^{1.} Bhava of the text is quite difficult to render in English appropriately, as it is used here in a very technical sense which has not been noted even by the lexicographers The word has quite different connotations e g., a mode of being, existence, disposition of mind, etc. Here it seems to be signifying the various constituent parts of the organism, classified into six substances according to the source from which they are derived.

^{2.} Matrja, literally means, 'derived from the mother'.

Physical development⁸, complexion, growth⁹, drowsiness¹⁰, strength, stability¹¹, non-greed and enthusiasm are known to be due to the serum. (47)

Desire and aversion, pleasure and pain, virtue and vice, motive¹³ and intention, endeavour, intelligence¹⁸, life-span¹⁴ and the sense organs etc. are considered to be self-derived.¹⁵ (48-49)

Hearing, touching, seeing, tasting and smelling are said to be the five perceptive organs, the objects of their functions

The rasaja elements are obviously related to the quality of nourishment, while the $\partial tmaja$ factors pertain in principle to the moral quality of the mind and the character of the individual. It may not be forgotten that $\partial tman$ involved in the compound $\partial tmaja$, refers to the transmigratory soul which is a repository of good and bad actions, moral and immoral tendencies, knowledge and ignorance etc. (cf., Caraka Śa. Stha. 3.16 and 18 agreeing to a large extent).

Now, the author goes on to complete the picture, as it were, by relating the various instruments and physical organs with their respec-

- 8. 'S' defines upacaya as fattiness.
- 9. 'S' defines vfddhi as augmentation of volume or extent.
- 10. The word supti of the text also means sleep and laziness.
- 10. The word suppl of the text also include stop and that there seems 11. Sthiti has a text variant in dhfti, i e., fortitude; but there seems
- to be no substantial difference in the meaning.
- 12. The word *bhavana* signifies a unified process of motive and intention. Intention is nearly an activity of the conscious mind, but motive may be deeply related to the subconscious and the unconscious. *Bhavana* comprehends the total process.
- 13. Jāanam of the text is quite difficult to translate. The word signifies undistorted perception. Though 'knowledge' is one of the meanings of the word, as it is understood today in the sense of accumulated experience and memory of facts, jūanam can hardly be rendered as such. In the context in which it is used, it can signify, what we understand by 'consciousness', provided it is not confused with self-consciousness. If by jūanam we understand the capacity for undistorted perception, then the word 'intelligence' used in its widest connotation, seems to be the nearest equivalent. In the Vedantic parlance, jūanam signifies witness consciousness, i.e., the consciousness which is not a modification of mind Thus intelligence, here, has been used in the sense of pure consciousness, i.e., undelimited consciousness
 - Ayus literally means the period of life.
- 14. Ayus interally means the period of men 15. Atmaja refers to the character of the individual soul as it has 15. Atmaja refers to the character past lives.

being sound, touch, vision, taste and smell respectively. (49-50)

Speech, hands, feet, anus and the genitals are the organs of action and their functions respectively are—speaking, movement, excretion and copulation. (50c-51c)

Mind and intellect are the two internal instruments. Pain and pleasure are known to be the objects of mind, while memory, error and choice (out of alternatives) etc. are considered to be its functions, and the function of the intellect is determination. (51c-52)

tive functions. The scheme of the five sense organs and the five physical organs of action forms the common feature of most of the orthodox schools of Indian philosophy. There is a difference of opinion regarding the mind and the intellect. While some treat of both as antahkarana, i. e., the inner instrument, some consider mind to be the sixth sense organ. Here the author follows the scheme of the Vedanta philosophy and treats mind and intellect as different modifications of, what may be called, the mind-stuff or consciousness, i. e., citta. Th⁹ same consciousness, when it functions as the instrument of desire, iⁱ known as manas, i.e., mind; and when it functions as the instrument o⁴ determination, it is known as buddhi, i. e., intellect. This, in principle, defines the connotation of these two terms.

The word mind, in English is used in different senses, i. e., it has a wider connotation than perhaps the word manas which has been rendered here as mind. Mind may be used as synonymous with psyche and also in the sense of will or even desire. Mind may include the intellect, will and reason and it may denote consciousness, either whole or as conscious, subconscious or unconscious. Manas stands also for the undivided antalikarana and in that case is synonymous with mind. But, here mind is that category of the psyche, that modification of consciousness which has pain and pleasure for its objects. Desire is rooted in pain and pleasure. The pursuit of pleasure and the avoidance of pain is the function of the mind.

The word intellect has a more restricted connotation than the Skt. word buddhi. Buddhi is essentially the determinative faculty of the mind It determines the course of choice and in this sense acts as the subconscious. But since in determining the course of action it utilises the process and the fund of knowledge, it involves analysis and discursive thinking. So, the term buddhi has been rendered as intellect for the sake of convenience, or may be for want of a better word.

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The organs of sense-perception have Brahman for their source,¹⁶ while others take them to be material (in nature). , **(53ab)**

The inner instrument called 'individual nature'17, differentiated by the type of character, is considered to be threefold. (53 cd)

The author, according to 'S', has enumerated memory, illusion and choice as some of the functions of the intellect. Memory includes knowledge and illusion is ultimately an error of judgement or a perversion of perception. Choice as related to action has already been explained as the function of buddhi.

'S' quotes Vacaspatyam which says that the mind and the intellect (i.e., manas and buddhi) combined together make for the apparent feeling, 'I exist'. In other words, mind and intellect are responsible for 'self-consciousness'.

Here obviously the author is elucidating the principle of individual predisposition.

Antahkarana comprising the mind (manas) and the intellect (buddhi), or in other terms, will and practical reason, operates at the conscious level in modern terms. Apart from this the individual has another instrument in terms of consciousness, that functions at a deeper level.

16. 'S' elucidates this point as under :---

"The Vedantins consider Brahman to be the cause of (the power of) the 'indriva-s' (i.e., the sense organs and the organs of action including the inner instrument) for indeed they consider Brahman to be the cause of entire appearance of the world phenomenon. Alternatively, the Sankhya-s would interpret the phrase brahmayonini in the sense that they are not material. Others, i.e., the Vaisesika-s consider these organs to be material, since they are produced from the five elements such as earth, water, etc., which are physical."

However, the elucidation of 'S' with reference to Vedanta is based on very general grounds and thus loses significance. The Sankhya philosophy considers entire prakiti as inert; and, therefore, it is not understood how the Sankhya-s can consider the organs to be immaterial. Actually the Sankhya system considers purusa to be absolutely inactive. Consequently ahamkara, i. c., the cause of self consciousness is considered to be the cause of senses. Again in the Vedantic view the world is an appearance of Brahman, which in its cit aspect can be considered to be the cause of sense perception.

17. Sattva, iiterally means-nature, essence, natural character, inborn disposition, mind and consciousness. In this context, 'S' takes it to be consciousness, as the third aspect of antahkarana, the inner instrument.

The guna-s are sattva, rajas and tamas, i.e., purity18, activity and inertia. From the mental disposition¹⁹ of

According to the Sankhya system, the inner instrument is threefold comprising the mind, the intellect and consciousness as the cause of selfawareness. Sattra is defined by 'S' as suabhava, i.e., individual nature or predisposition Three types of individual dispositions are discerned here on the basis of the predominance of any one of the three gunas. Guna is an ingredient or a constituent of prakti as spoken of in the Sankhya system of Indian philosophy. Praktti is manifestation and Purusa is the intelligent principle involved. It will not be relevant to go into the philosophical exposition of the Sankhya doctrine here, but it is perhaps necessary to point out that it visualises two states of being, viz., the one of dissolution in which the three guna-s of prakti are in equilibrium and the intelligent principle Purusa is dissociated from it; and the other of creation, when the equilibrium of the guna-s is disturbed and by their varied predominance in association with the intelligent principle Puruşa, they create the phenomenon of names and forms. So, the individual nature of the individual is instrumental in the individual creation to the intelligence involved in the individual being. Thus the mind, conscious and unconscious, is conceived here as the inner instrument for the functioning of the consciousness of the individual. Therefore, the individual consciousness as associated with the predominance of any one of the three guna-s is discerned to be of three types. The three guna-s seem to represent, what in our terms, we would understand as the two opposites and the centre of their axis, the centre being the sallra.

It is interesting to compare Susruta (Sa. Stha. 1.19) on this subject. "An absence of all-killing and hostile propensities, a judicious regimen of diet, forbearance, truthfulness, piety, a belief in God, spiritual knowledge, intellect, a good retentive memory, comprehension and the doing of good deeds irrespective of consequences are the qualities which grace the mind of a person of a sattvika temperament. Feeling of much pain and misery, a roving spirit, non-comprehension, vanity, untruthfulness. non-clemency, pride, an overwinning confidence in one's own excellence,

^{18.} Rajas and tamas have been rendered here as activity and inertia which are not only opposite in nature but are also relative while sattoa is rendered as purity being free of the extremities. There are other sets of words in which too the three guna-s are rendered into English but the essential point is that they imply the two opposites and the transcendental principle of sattoa,

^{19.} The three types of inner disposition or consciousness have one of the three guna-s as its predominant factor conditioning the entire consciousness.

purity^{*0} arise faith^{\$1}, single-minded devotion to virtue etc.^{**} from the disposition of activity arise affections such as craving, anger, arrogance, etc.; and from the disposition of inertia spring sleep^{\$8}, laziness^{\$4}, inattention^{\$5}, anguish and deception etc. (54-55)

Clear sensibility, freedom from ill health and laziness²⁷ are contributed by self-adaptation. (56ab)

lust, anger and hilarity are the attributes which mark a mind of a *rajasika* cast. Despondency, stupidity, disbelief in the existence of God, impiety, stupefaction and perversity of intellect, lethargy, inaction and sleepiness are the qualities which mark a mind of a *tamasika* stamp." (reproduced from Eng. tr. by K.K. Vol. II, p. 1).

'S' defines Satmya as cira-paricaya-samskāra-višesah, i. e., the residual effect of long-standing association (verse 44 ante). From the account of Caraka (Sa. Stha. 3.7) it appears that the word Satmya is associated with right type of dietary habits of the parents. Thus, in all probability what is meant by satmya in this context is, the habits and disposition acquired by adaptation.

- 20. On the above basis the function of the predisposition of purity, predominated by satisfying is fundamentally and categorically different from that of the other two dispositions, predominated by rajas and tamas.
- 21. Astikya is defined by 'S' as belief in the existence of the other world, para-loka, while generally it is defined as belief in the testimony of Vedas being the means of valid knowledge. Thus this concept does not, in the Hindu tradition, imply belief in personal God.
- 22. Dharma involves so many varied and yet related concepts that it is almost impossible to render it into English without compromising the meaning in some respect. Here, dharma may be understood with reference to adharma. Dharma, as such is living in harmony with the nature of existence. 'S' perceives a hint at the attainment of spiritual liberation through the cultivation of purity by the use of the word 'etc.'
- 23. 'S' defines *nidrā*, i. e. sleep as the withdrawal of the mind from the contact of the senses with the sense objects. It therefore includes the dreamful and the dreamless states of consciousness.
- 24. 'S' defines alasva, i.e., laziness as indifference or inactivity with reference to desired objects and the means of their attainment.
- 25. 'S' defines pramada as lack of concentration or slackness in attention in a particular direction.
- 26. Arogya is freedom from disease.
- 27. Absence of laziness is indicated.

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(v) देहस्य भृतात्मकता

वेहो भूतात्मकस्तस्माबादत्ते तद्गुणानिमान् ।।४६।। शब्दं श्रोत्रं सुषिरतां वैविक्त्यं सूक्ष्मबोद्धताम् । बिलं च गगनाद्वायोः स्पर्शं च स्पर्शनेन्द्रियम् ॥४७॥ उत्क्षेपणमवक्षेपाकुञ्चने गमनं तथा । प्रसारणमितीमानि पञ्च कर्माणि, रूक्षताम् ।।४८।। प्राणापानौ तथा व्यानसमानोदानसंज्ञकान । नागं कूमँ च कृकरं देवदत्तं धनञ्जयम् ।।४९॥ दशेति वायुविकृतोस्तथा गृह्णाति लाघवम् । तेषां मुख्यतमः प्रागो नाभिकन्दादधः स्थितः ।।६०।। चरत्यास्ये नासिकयोर्नाभौ हृदयपङ्कुजे । शब्दोच्चारणनिःश्वासोच्छुासकासादिकारणम् ॥६१॥ गुदे मेढ्े कटीजङ्गोदरेषु च। अपानस्त् वङ्क्षणयोरूरुजानूनि तिष्ठति ॥६२॥ नाभिकन्दे अस्य मुत्रपुरीषादिविसर्गः कर्म कीतितः । व्यानो ऽक्षिश्रोत्रगुल्फेषु कटचां झाणे च तिष्ठति ॥६३॥ प्राणापानधृतित्यागग्रहणाद्यस्य कर्म च। समानो व्याप्य निखिलं शरीरं वह्निना सह ।।६४॥ द्विसप्ततिसहस्रेष<u>्</u> नाडोरन्ध्रे ष संचरन् । भक्तपोतरसान्सम्यगानयन्देहपुष्टिकृत् 112211 पादयोरास्ते हस्तयोरङ्गसन्धिषु । उदान: देहोन्नयनोत्क्रमणादि प्रकीतितम् ।।६६॥ कर्मास्य त्वगाविधातुनाश्रित्य पञ्च नागादयः स्थिताः । उदगारादि निमेषादि क्षुतप्रभृति च क्रमात् ॥६७॥ तन्द्राप्रभृति शोफादि तेषां कर्म प्रकीर्तितम् ।

अग्नेस्तु लोचनं रूपं पित्तं पाकं प्रकाशताम् ॥६८॥ अमर्षं तैक्ष्ण्यमूष्माणमोजस्तैजश्च शूरताम् । मेधावितां तथा ऽऽदत्ते जलात्तु रसनं रसम् ॥६९॥ शैत्यं स्नेहं द्रवं स्वेदं सूत्रादि मृदुतामपि । मूमेर्घ्राणेन्द्रियं गन्धं स्थैयं धैर्यं च गौरवम् ॥७०॥ श्मश्रुकेशनखं दन्तानस्थ्याद्यन्यच्च कर्कंशम् ।

(v) The five great elements (mahābhūta-s) and the human body : 56c-71b

The body is a composite of the (five) great elements¹ (mahābhāta-s) and has therefore acquired their qualities (as herein described); sound, the faculty of hearing, porosity, individuation², intelligence³ and hollowness from space; and touch, the sense organ for touch, five types of motion, viz.

The physical body is a conglomeration of the five great elements and as such it has inherited, as it were the qualities of those elements. The sense organs are naturally related to their respective objects of perception. The objects of perception are the five elements in different forms and combinations Thus either we can speak of the five sense objects or the five elements. This is the reason why sound, for example, is separately mentioned from the faculty of hearing and touch is mentioned as distinct from the sense of touch (cf, Caraka Śā. Sthā. 1.30).

The objects such as sound etc. are known to be the sense objects, i. e. the qualities or objects of senses; and they in the body are indicative of the great elements such as ether etc. In this context it might be useful to refer to the concept of *Puruşa*, i. e., the individual being as found in Caraka (Sa. Sthā. 1.15), viz. (the five elements). Ether etc. with consciousness as the sixth make for the individual being. Consciousness is thus the spiritual element and the five material elements compose the body. Again Sa. Sthā. 5.4-5 states—

"The macrocosm is said to be constituted of six elements, viz., earth, water, fire, air, ether and the unmanifest 'Brahman (transcenden-

- 2. Vaivikiyam is separativeness.
- 3. What is literally meant is the capacity of subtle discernment, the ability to grasp the abstract.

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upwards, downwards, contraction, linear movement and expansion from air. (56c-58d)

The ten modifications of air (breath in the body), viz. apāna, vyāna, samāna, udāna, nāga, kūrma, kīkara, devadatta and dhanañjaya and roughness⁴ as well as lightness⁵ are also derived from the air. (58d-60b)

Of these (ten), *prana*, which is the most important one, is stationed below the root of the navel, and it operates through the mouth, the nostrils, the navel and the heart.

tal reality); and these very six elements it is said, constitute the microcosm called Purusa. Of that Purusa, the earth forms the image, water forms the liquid, fire constitutes the heat, air acts as the vital breath. hollowness is caused by ether and Brahman is the inner soul etc." Compare this with Susruta (Sa Stha. 1 20): "The properties of akasa (ether) are sound, the sense of hearing, porosity and differentiation, evolution of the veins, ligaments, etc. into their characterised species (viviktata). The properties of vayu (etherin) are touch, the skin, all functional activities of the organism, throbbing of the whole body (spandana) and lightness. The properties of teja (fire or heat) are form, the eyes, the colours, heat, illumination, digestion, anger, generation of instantaneous energy and valour. The properties of apa (water or liquid) are taste, the tongue, fluidity, heaviness, coldness, oleaginousness and semen. The properties or modifications of prthot (the earth matter or solid) are smell, the nose, embodiment and heaviness" (reproduced from Eng. tr. by K K. Vol. II, p. 120).

Our author has dealt with this subject rather elaboratelv (i.e., from verse No. 56cd-71ab) giving minute details of the various prana-s (vital breaths) from the science of *Toga* (vide Verse Nos. 59-68ab). One is tempted to reach for the original source and reflect on the subject in proper detail; but obviously, that would be too great a divergence from the main subject of this work. It will be seen that as far as the particular qualities of the great elements manifested in the human body are concerned, the author's description is not at great variance with this account, though in some respects both are more elaborate with reference to each other.

5. Weightlessness is defined by 'S' as absence of weightfulness.

^{1.} The five great elements are earth, water, fire, air and ether.

^{4.} Rūkşalā, as defined by 'S' is caused by the scarcity of oily matter. Roughness is not here the opposite of smoothness.

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and (thereby) causes the verbalisation of speech, the inhalation and exhalation of the breath and also sneezing and coughing. (60c-61)

Apāna⁶ is stationed in the anal region and the genitals,⁷ waist, legs, abdomen, the root of the navel, the groin, thighs and the knees. Its function is to discharge urine and excretion etc.⁸ (from the body). (62-62b).

Vyāna dwells in the eyes, ears, ankles, waist and the nose, and its function is to draw in, hold and to push out breath. (63c-64b)

Samāna pervades the whole body; and running through the seventytwo thousand nerve-channels⁹ of the body accompanied by the (digestive) fire, helps to nourish it by carrying essence of lymph-chyle (rasa) of the food and drink (to the tissues) and distributing it proportionately. (64c-65)

Udāna abides in the hands, the feet and the joints of the limbs: its function being the lifting of the body upwards and breathing the last, i.e., dying, etc.¹⁰ (66)

Residing in elements such as skin, etc.¹¹ are the five (other modifications of the vital breath) such as $n\bar{a}ga$ etc.¹²,

Prana, apana, etc. are the ten modifications of the vital breath, as it functions through the parts of the body. These functions as appropriate to each of the ten modifications are related in the following text.

- 6. Apana generally denotes the outgoing breath i.e. expiration; it also signifies one of the five life-winds (prana-s) in the body which goes downwards and finally goes out through the anus.
- 7. Literally, anus and penis as per the text.
- 8. Etc. according to 'S' indicates that the discharge of semen is implied.
- 9. Nadi is any tubular vessel including arteries, veins, etc. Here the word has been used in its generic sense of a tubular channel.
- 10. 'Etc.' is indicative of hiccup etc. The use of the word 'etc.' is not strictly in keeping with the English idiom but because of its Sanskrit counterpart.
- 11. The other four being blood, flesh, fat and bones.
- 12. The other four being kurma, kykara, devadatta and dhanañjaya.

performing the function of eructation etc.¹³, winking etc.,¹⁴. sneezing etc.¹⁵, lassitude etc.¹⁶ and swelling respectively. (67-68b)

From fire (the body acquires) sight¹⁷, form¹⁸, bile, digestion¹⁹, lustre, wrath, sharpness, heat²⁰, vigour, splendour, valour²¹ and intellectuality.²² (68c-69c)

Likewise, from water (it derives) the sense of taste, relish, coolness, viscidity²⁸, fluidity, perspiration, urine etc. as well as softness: and from the earth (it acquires) the sense of smell, odour, stability, fortitude and heaviness (weight), beard, hair (on the head etc.), nails, bone and such other hard (materials). (69d-71b)

According to the ayurvedic theory, sense perception takes place because of the fact that the senses as well as the sense-objects are basically made out of the same material, and so there is a correlation in between them The senses and their respective sense objects are related through their respective tanmatra-s. This is the reason why the object of one sense cannot be perceived through the other senses (cf., Susruta Sa. Stha. 1-15).

- 13. Such as spitting etc. is included.
- 14. Any other functions of the cyclids.
- 15. Blowing the nose etc. is indicated.
- 16. Yawning etc. is included.
- 17. The sense of seeing is meant.
- 18. The object of the sense of sceing is implied.
- 19. The *paka* of the text indicates the result of the entire process of digestion, right from the undigested food to the formation of the lymph-chyle to be assimilated into the blood system.
- 20. Uşman of the text is indicative of that particular heat in the body which causes perspiration.
- 21. Valour implies fearlessness.
- 22. 'S' interprets it as the power inherent in the non-forgetfulness of the known.
- 23. The oiliness in the body. 'S' interprets it as 'sweetness of speech'.

(vi) त्रिविधदेहानां भेदकथनम्

वातादिधातुप्रकृतिर्व्योमादिप्रकृतिस्तथा ॥७१॥ सप्तधा सात्त्विको यश्च ब्रह्मेन्द्रयमविग्रहः । वारुणश्चाथ कौबेर आर्षो गान्धर्वविग्रहः ॥७२॥ राजसः षडि्धो यश्च पैशाचो राक्षसस्तथा । आसुरः शाकुनः सार्पः प्रेतदेहस्तथा परः ॥७३॥ तामसस्त्रिविधो यश्च पशुमत्स्याङ्ग्रिपाकृतिः । तेषां लक्ष्माणि न ब्रुमो ग्रन्थविस्तरकातराः ॥७४॥

(vi) The constitution of bodies : Threefold classification : 71c-74

The constitution is according to *dhātu-s* such as *vāta* (wind) etc.,¹ and elements such as space etc.² The *sāttvika* (constitution) is of seven types such as the bodies of Brahmā⁸ Indra⁴, Yama⁵, Varuņa⁶, Kubera⁷, *rsi⁸* and *gandharva⁹*; the

The constitution of the physical body of creatures is considered from three different points of view, viz, the medical, the physical and the metaphysical respectively known in Ayurveda as doga-prakfti, bhautikt-prakfti and mahi-prakfti. The first comprises of the three ayurvedic principles of vata, pitta and kapha, i. e., grossly manifest as wind, bile and phlegm; the second is purely physical, comprised of the five basic elements space, air, fire, water and earth, and the third is conceived to be threefold according to the predominance of three gunas.

- 2. Space or ether along with the other four elements air, fire, water and earth
- 3. The creative aspect of the Hindu trinity.
- 4. The chief of the gods of the Hindu pantheon, specially the deta-s.
- 5. God of death.
- 6. God of waters and morality.
- 7. God of wealth.
- 8. Sage.
- 9 Semi-divine heines associated with music.

(vii) देहस्य षडङ्गानि पिण्डस्याहुः षडङ्गानि शिरः पादौ करौ तथा । मर्घ्यं चेति

rājasika (constitution) is of seven types such as the bodies of piśāca¹⁰, rākşasa¹¹, asura¹², śakuni¹³, sarpa¹⁴ and preta¹⁵; and tāmasika (constitution) of three types such as the bodies of animals, fishes and trees.¹⁶ Apprehending undue claboration of the work, these are not being defined by us. (71c-74)

(vii) Six organs of human body : 75abc

The human organism¹ is said to be possessed of six organs

The author has referred to the first two, i. e., doşa-prakţti and bhautikt-prakţti clearly (vide Verse 71cd), but has not mentioned the general category of mahā-prakţti and has straightaway described its three divisions. This illustrates the subtlety and the extreme brevity of the aphoristic style of the author's expression, which sometimes makes understanding a laborious process

The seven types of the sattoika and rajasika and three types of tamasika constitutions respectively are described metaphorically through the symbolic names of Brahma, Indra, Yama, etc. All these are in fact the types of human bodies but they have been so named as to indicate their chief characteristics, which are well-known in Apurveda. Obviously we need not go into these details. As the author is not anxious to deal with the subject in greater detail, it will be too great a digression to define and elucidate the various individual types of bodies referred to in the text.

- 10. A malevolent being, a goblin.
- 11. A demon, an evil spirited being.
- 12. Asura is a general name for the enemies of gods.
- 13. A bird.
- 14. A snake.
- 15. Soul of a dead body; the word *preta* literally means that which has been sent, i.e. sent to the other world, *preta-loka* is the plane of consciousness on which the soul experiences the fruits of of actions done in the world during a life-time before being born anew. In order to do so the soul is provided with a subtle body.
- 16. K. R. translates anghripa as 'elephant'.
- 1. Pinda of the text refers to the body, excluding the soul, i. e., the intelligent principle.

^{1.} Wind etc. signifies the three humours of the body recognised as the three basic-elements of the body in the ayurvedic system of medicine. The other two are bile and phlegm.

(viii) देहस्य प्रत्यङ्गानि

1. मन्धकृत्प्रतिज्ञा

अथ वक्ष्यन्ते प्रत्यङ्गान्यखिलान्यपि ।।७५।।

2. स्वचः कत्ताश्च (प्रत्येकं सप्तधा) त्वचः सप्त कलाः सप्त स्नायुश्लेष्मजरायुभिः । छन्नाः कोशाग्निभिः पक्वास्ता घातूनन्तरा ऽन्तरा ।।७६॥

(or limbs)—two feet, two hands³, the head⁴ and the trunk. (75a-c)

(viii) Sub-organs of human body : 75c-119

1. Author's proposal to deal with the sub-organs : 75cd

Now, the sub-organs will be dealt with in their entirety. (75cd)

2. Skins and membranes : 76-78

There are seven skins and seven membranes, enclosed by fibrous tissues, mucous and membranous coverings, that ripen through the internal heat¹ of the tissues and act for the boundary lines to sustain in-between them the supportive

The suborgans are described by the author at length, i. e., upto verse No. 119. For the enumeration of the suborgans Susruta 5. 3-5 may be consulted.

The sevenfolds of skin from the innermost tender one to the outermost rough skin, are mentioned by Susruta (cf. 4. 3.5), though in the

- 4. Cf, Caraka, Sā. Sthā. 7.5, who includes neck also along with the head, giving a composite expression of *sirogrivam*. In the text the head is mentioned first.
- 1. The expression internal heat of the tissues stands for kosagni of the text,

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सीमभूताश्च घातूनां काष्ठसारोपमा मताः । आद्या मांसघरा मांसे सिरा घमनयस्तथा ॥७७॥ स्नायुस्रोतांसि रोहन्ति पङ्के पङ्कतजकन्दवत् । असृङ्मेदः श्लेष्मशकृत्पित्तशुक्लघराः पराः ॥७८॥

tissues², conceived on the analogy of pith. The first is māmsa-dharā (i. e., the flesh-holding one).³ (76-77c)

The veins, arteries, muscles (or sinews) and the channels⁴ arise from the flesh as the bulbous root of the lotus (springs) from mire; while the other folds support the blood, fat, mucous, excrement, bile and semen. (77c-78)

reverse order. Our author begins with the innermost fold while he begins with the outermost one. The seven layers are as under :

- 1. Avabhāsint... Horney layer
- 2. Lohita ... Stratum lucidum
- 3. Śvetā ... Stratum granulosum
- t. Tamra... Malpighian layer
- 5. Vedint ... Papillary layer
- 6. Kohint ... Recticular layer
- 7. Mamsadhara...Subcutaneous tissue and Muscles

However, Caraka speaks of only six layers, viz, udakadharā (that which holds water) and astgdharā (that which holds blood), etc. in the order of outer to the inner. Modern medicine distinguishes only two skins, outer and inner called epidermis and dermis, the former is perceived in five layers and the latter in two layers.

For greater detail regarding the various skins and skin-diseases associated with them, Susruta 4.3 may be referred to. The seven kala-s are identified by Susruta as under (cf., Sa. Stha. 4. 4-19);

1. Mainsadhara kala ... Fascia

- 2. Raktadhara ,, ... Vascular tissue of the blood vessels, etc.
- 3. Medodhara " ... Adipose tissue
- 2. Supportive tissues are *dhātu-s* of the text that are detailed in the next verse.
- 3. The other skins are not mentioned by our author by name, these may be seen in the comments.
- 4. Stota \cdot s are the channels or canals that open outwards in the body.

^{2.} Legs are implied in feet.

^{3.} Arms are implied in hands.

3. धातवः

त्वगसृङ्मांसमेदो ऽस्थिमज्जशुक्राणि• घातवः । सप्त स्युस्तत्र चोक्ता त्वग्रक्तं जाठरवह्निना ।।७९।। पक्वाद्भवेदन्नरसादेवं रक्तादिभिः परे । स्वस्वकोशाग्निना पक्वेर्जन्यन्ते घातवः क्रमात् ।।८०।।

3. Supportive tissues : 79-80

Serum¹, blood, flesh, fat, bone, marrow and semen are the seven supportive tissues. Of these the serum and the blood are produced from chyme² created by the aid of

Śleşmadhara	در	Synovial tissues
Purişadhara	در	Separates the faecal refuse in the lower
 Pittadharð Śukradharð	23 13	

The folds of skin and the membranes (kala-s) spoken of above in constitution are conceived on the analogy of pith, i. e., as the pith in the wood is grown layer after layer varying in strength so are they grown about each other. Another simile is also given, viz., as the layers of cream are formed over milk heated on slow fire, so also the various folds of skin along with membranes are formed out of scven supportive tissues (dhatu-s) of the body which are detailed in the next verse.

The seven supportive tissues are spoken of as being sustained inbetween the varions folds and layers of the seven skins and the seven membranes (kala-s). The first layer called mainsudhara, holds within itself, flesh as it has already been told above. Now the author is pointing out that veins, arteries, muscles and the channels (srota-s) are all rooted in flesh as the lotus-stalk is rooted in the mire.

an rooted in neural as the total total in the body, nine in number such as the Srota-s are the canals in the body, nine in number such as the ears, eyes, mouth, nostrils, anus and the urethra opening outwards. Females have two more, viz., the two breasts and the canal or the channel that carries the menstrual blood.

Thus the mavisadhara, i.e., the flesh-holding skin is the most important of all and having described its function, the author merely hints at

- 1. Toak is used in the technical sense of rasa (serum).
- 2. Chyme is the nutrient-solution made out of digested food and
- با هتمار

4. आशयाः (सप्त)

रक्तश्लेष्मामपित्तानां पक्वस्य मरुतस्तथा। मूत्रस्य चाश्रयाः सप्त क्रमादाशयसंज्ञकाः ॥ ८१॥ गर्भाशयो ऽष्टमः स्त्रीणां पित्तपक्वाशयान्तरे।

gastric fire; while the other (elements) are produced from blood, ripening by the internal heat of their respective tissues⁸. (79-80)

4. The receptacles (asaya-s) : 81-82b

There are seven containers¹ called receptacles² for blood, phlegm, undigested food, bile, digested food, bodily wind and urine known by their respective names³. Women

the function of the other six folds that respectively hold or support the rest of the six elements. In fact our author has synthesised the description of the skins and the membranes for the sake of brevity as it will be clear from our exposition of the subject matter, vide comments on verse Nos. 76-77 abc.

Then the author goes on to explain how the seven supportive tissues are produced. He says, the skin and blood are produced directly from the essence of food and drink digested through the gastric fire, while the rest of them are produced from blood as they are ripened in the heat of their respective tissues.

'I he seven receptacles (*nsaya-s*) are identified as under :

1. Raktāšaya	for blood	Spleen and liver
2. Śleşmaśaya	" phlegm	Breast
3. Amašaya	,, undigested for	od Stomach
4. Pittašoya	,, bile	Gall bladder and pancreas
5. Pakuašaya	,, digested food	Intestines
6. Vatašaya	,, wind	Lungs and colon
7. Mūtrāšaya	,, urine	Urinary bladder
8. Garbhaśaya	" embryo	Uterus

3. Internal heat of the tissues is the expression for kośagni. Kośa is that which has a capacity to retain something other than itself

- 1. Cavities or viscera.
- 2. Asaya-s.
- 3. Respective names of blood etc. to be attached to the word asaya, e.g., raktasaya, vatasaya, etc.

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5. हृद्यस्य चेतनस्थानस्वम् प्रसन्नाभ्यां कफासृग्भ्यां हृदयं पङ्कणकृति ॥ २१। सुषिरं स्यादधोवक्त्रं यकृत्प्लीहान्तरस्थितम् । एतच्च चेतनस्थानं,

have the eighth, the womb in-between the receptacles for bile and the digested food.⁴ (81-82b)

5. Heart as the seat of intelligence : 82c-83c

The heart is <u>hollow</u> and in the shape of an inverted lotus situated in-between the liver and the spleen and is developed from clear¹ blood and phlegm. This too is the abode of consciousness. (82c-83b)

These receptacles function as the containers or the vessels. Seven of these are common to males and females while women have one more, viz., uterus placed in-between the gall bladder and the intestines.

That heart as an abode or the seat of consciousness in the body is well recognized by some schools of thought of Indian philosophy. Even the upanizads proclaim that the Puruza, i. e., the soul or the spirit resides in the heart. But this can be a metaphorical expression.

The expression cetana-sthānam is difficult of being rendered into English with its philosophical implications As it is, it means the abode of sentience. 'K' has laboured hard to forbid the reader from interpreting it as the abode of Jivatman, i. e, the transmigratory soul, and he therefore interprets the conjunctive ca (and) as indicative of other places such as space etc. which also is considered to be the abode of Brahman, the absolute Being. Perhaps he, being a ved antin, identifies cetand with Brahman, and therefore feels that heart should not be considered as the only abode of sentience. Therefore, he maintains that heart is the abode of the manifestation of Brahman, the absolute Being. One can, however, cut across the philosophical implications by taking into account the next verse along with this one. If so read, it is obvious that the word cetana of the text is not used here in the sense of caitanya, i. e., pure intelligence, but has been used in the sense of consciousness. But this too must be taken metaphorically for consciousness being intangible can hardly be located anywhere in the body with justification. But nevertheless, consciousness works through the brain, which is controlled by the heart.

6. जीवस्य अवस्थात्रयम्

, तर्वास्मिस्तमसा ऽऽवृते ॥=३॥ निमोलति स्वपित्यात्मा जार्गात विकसत्यपि । द्वेधा स्वप्नसुषुप्तिभ्यां स्वापो बाह्येन्द्रियाणि चेत् ॥=४॥ लीयन्ते हृदि जार्गात चित्तं स्वप्नस्तदोच्यते । मनश्चेल्लीयते प्राणे सुषुप्तिः स्यात्तदा ऽऽत्मनः ॥=४॥ स्वमपीतः परात्मानं स्वपित्यात्मेत्यतो मतः ।

6. The three states of consciousness: 83d-86b

That (intelligent principle) being enveloped by darkness¹, it (the heart-lotus) closes (upon itself) and the $\bar{a}tman^{2}$ (the spirit) sleeps; it ($\bar{a}tman$) awakens, while that (the heart) opens up. (83d-84b)

It seems that the whole expression is metaphorical. Heart is the centre of the physical body, and as such it is used as the symbol for the centre of consciousness, which is the ego or the soul. Man, here, is conceived to be the complex entity : spirit-soul-body. Spirit being the divine element in man, the *Atman* which is not different from *Brahman*, the absolute; the soul is the *jtvatman*, the embodied self, subject to transmigration. The heart-lotus is the symbol of self-consciousness. Therefore, when the spirit is clouded by inertia (*tamas*) the heart-lotus closes its petals upon itself and the spirit, i.e., the intelligent principle ceases to operate, and is thus said to be asleep. Conversely, when inertia is dissipated, the spirit awakens into self-consciousness and the heart-lotus is opened up.

'K' interprets this in terms of Vedanta (absolutistic). He explains the phenomenon of sleep as explained in the text as follows: "The intelligent principle being enshrouded by the darkness of beginningless ignorance, when the heart-lotus closes, then the *atman*, the soul (i e., the self-conscious being, the *jtva*) sleeps; and when that lotus opens up, the *jtva*, the self-conscious being, awakens and feels 'I am'." It is notable that in this verse 'K' interprets *atman* as *jtva*.

After giving the above interpretation, he then gives the substance in the following manner : "In the state of self-conscious existence due to

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^{4.} Cf., Suśruta Śā. Sthā. 5. 7-8.

^{1.} Prasanna. means clear in the sense of clean and nure.

^{1.} Inertia.

^{2. &#}x27;K' interprets it as jiva, here.

Sleep is twofold, dreamful and dreamless : when the external senses are withdrawn into the heart and the mind remains awake, it is said to be dreamful; but, if the mind is withdrawn unto $pr\bar{a}na^8$ (the vital breath) then it (the sleep)

the beginningless ignorance with regard to the real nature of one's being, the individual obtains in the conditions of the waking state, the dreamful state and the dreamless sleep state under the respective names of visua, taijasa and prajña.

This elucidation, enlightening as it is, is technical as well. The purport is that Life-essence or the absolute Being, in the state of individuated being lives under the influence of beginningless ignorance in the three conditions of consciousness technically called visva, taijasa and prajña, that correspond to the waking, the dreamful and the dreamless sleeping states. Ignorance is nothing but the self-imposed limitation of personality complex, and the three states roughly correspond to the conscious, the subconscious and the unconscious mind of modern psychology.

What is the distinction between the dreamful and the dreamless sleep? Because, apart from the waking state of the consciousness, these are the two other states. The author explains that in the dreamful sleep, energy or attention is withdrawn only from the external sense, but the mind keeps awake, a part of the brain is actively functioning, i.e., the thought process keeps on going resulting in dreams. Thus, in the absence of the sense perception, the thoughts are the only objects of consciousness, and the distinction between the ideal and the actual form of objects is lost to it. That is why dreams are as real in the dreamful state as the physical world is during the waking state, and therefore one cannot be said to be more real than the other with reference to its consciousness.

The dreamless sleep is caused by the mind being dissolved, i.e., withdrawn, unto prana (vital breath). One can quite understand that in the deep sleep the mind is withdrawn, but that it is withdrawn unto prana is a paradox. The Vedanta speaks of five vestures, viz., the physical (annamayakosa), vital (pranamayakosa), mental (manomayakosa), psychic (vijnanamayakosa) and blissful (anandamayakosa). In this scheme the mind which pertains to the mental vesture is subtler than prana (vital breath). Therefore, it is not intelligible how a subtler entity can be dissolved in a grosser one, for usually the case is contrary. Section 2: The Genesis of the Human Embodiment 71

7. नव स्रोतांसि

श्रवणे नयने नासे वदनं गुदशेफसी ॥ ५६॥

becomes dreamless or the deep sleep state of the individuated being⁴. (84c-85)

That the *ātman*⁵ sleeps, is so believed for it dissolves itself⁶ unto *Parātman*⁷. (86ab)

7. 'The nine canals (srot.1-s) : 86c-87

The embodied human beings are provided with nine canals (srota-s) for the elimination of bodily impurities, viz.,

The statement of the author can possibly be understood in the sense that even while the mind is not functioning in deep sleep, the vital breath does function, and therefore the mind can be said to dissolve in it. Or, alternatively, the dissolution of the mind may be understood in the restricted sense of self-consciousness only, which is related to sense perception and body consciousness, which may not be very satisfactory.

The phenomenon of sleep is elucidated in a few words here on the basis of semantics. The Sanskrit expression for, 'the principle of intelligence sleeps', is 'svapiti'. The author raises the question as to why the *atman* is said to be sleeping, and he answers—"svamapitah paratmanam", i. e., because it dissolves itself, discards its self imposed limitations and thereby merges into the supreme Being; and this he does by explaining the meaning of the word 'svapiti', semantically.

Apart from the semantics, the idea expressed is very simple. Atman freed from the limitations of *Jivaiva* becomes one with the *Paramatman*; in other words, the spirit freed from the limitations of selfconsciousness is united with the supreme Deity; and this process exhibits itself, in the phenomenon of sleep. This however, signifies a temporary release.

- 4. Self-conscious living organism, i.e., jiva.
- 5. The principle of intelligence involved in a self-conscious being.
- 6. Actually what is dissolved is the limitation caused by selfconsciousness.
- 7. The supreme Deity, the absolute Being.

^{3.} It is temporarily dissolved in *prana* which is not the physical breath only.

बहिर्मलवहानि स्युर्नव स्रोतांसि देहिनाम् । स्त्रीणां त्रीण्यधिकानि स्युः स्तनयोह्यें भगे ऽसूजः ।।८७।।

8, जालानि, कूर्चाः, मांसरज्जवः, सीवन्यश्च अस्थिस्नायूसिरामांसस्थानि जालानि षोडश । षट् कुर्चाः करयोरङ्घ्रयोः कन्धरायां च मेहने ।। ८८।। पार्श्वयोः पृष्ठवंशस्य चतस्रो मांसरज्जवः । सीवन्यः पश्च शिरसि द्वे जिह्वालिङ्गयोमंते ॥ ५९॥

ears, eyes, nostrils, mouth, anus and urethra; but the females have three more; two breasts (milk channels) and the one that carries off the menstrual discharge.

8. Plexuses, clusters, fleshy bands and sutures : 88-89

There are in all sixteen plexuses¹ situated around bones, ligaments, veins⁸ and flesh; six clusters³-two in the hands, two in feet and one each in the neck and penis; four fleshy bands⁴ on the two sides of the backbone; five sutures⁵ in the head, one in the tongue and one in the genitals. (88-89)

Suśruta speaks of four kinds of plexuses, i. c. jala-s, viz. muscular, vascular, ligamentous and bony. One each of the four kinds is found about each of the wrists and the ankles. All the four kinds of plexuses intermingle and cross one another to form a network. The word jala literally means a network and the whole body is a network of plexuses as it were (cf., Sa. Stha. 5.11).

- 1. Jalas : cf. Suśruta Śā. Stha. 5.11.
- 2. Sira of the text here means any tubular vessel such as vein, artery, nerve, etc.
- 3. Kurca (lit. a brush), the clusters or groups may be made up of muscles, bones, vessels and ligamentous structure (cf. K. K. Bhishagratna, p. 162).
- 4. Mamsarajju are muscular cords originating from either side of the spinal column. These are identified by Ghanekar (cf. Vol. 2, p 145) with Longissimus, Spinalis and Ilio-costalis.
- 5. Bhishagratna defines slvani as the central tendinous band which looks like a structure from which the muscles on the either side arise. Ghanekar names the sutures as, metopic suture, coronal suture, lambdoid suture, sagittal suture, squamosal suture and

9. अस्थीनि, तेषां सङ्ख्या भेदाश्च

चतुर्दशाष्टादश वा संमता अस्थिराशयः । अस्थ्नां शरीरे संख्या स्यात्षष्टियुक्तं शतत्रयम् ।।९०।। वलयानि कपालानि रुचकास्तरुणानि च। नलकानोति तान्याहः पञ्चधा ऽस्थोनि सूरयः ॥९१॥ त्रीण्येवास्थिशतान्यत्र धन्वन्तरिरभाषत ।

9. Bones, their number and types : 90-92b

The group-units¹ of bones are believed to be fourteen or eighteen. The total number of bones in the body is three hundred and sixty. (90)

The sages have classified the bones into five types, viz., valaya,² kapāla⁸, rucaka⁴, taruņa⁵ and nalaka⁶. (91)

According to ayurveda the total number of bones in the body is three hundred and sixty; but according to the works of surgery, i. e. Susruta etc. there are only three hundred bones in the whole body (cf. Suśruta Śā. Sthā. 5.17, where it is said that, "One hundred and twenty bones are to be found in the four extremities, one hundred and seventeen in pelvis, sides, back, chest and abdominal region; and sixty-three are located in the neck and the regions above that.").

Susruta mentions only fourteen group-units, i. e, the collections of bones which are found in the two ankles, the two knees and the two groins, the two wrists, two elbows, two axillas, one in cranium and the other in the sacral region.

1. Samphata is a collection with integrity, i. e., a group working

- as a uuit.
- 2. Valaya type includes bones found in the palm, foot, sides, back, chest and the abdominal region.
- 3. Kapala type includes the bones situated in the knee joints, shoulders, hips, cheeks, palate, temples and the cranium.
- 4. Teeth form the *rucaka* type.
- Taruna type includes the bones in the nose, ears, throat and 5. the socket of the eyes.
- 6. Nalaka type of bones, as their name implies, are all the remaining ones of the cylindrical shape.

cf. Susruta Sa. Stha. 5.21 and Bhishagratna, pp. 165, 166 for further details.

10. अस्थिसन्धयः, तेषां सङ्ख्या भेदाश्च हे शते त्वस्थिसन्धीनां स्यातामत्र दशोत्तरे ॥९२॥ कोरकाः प्रतरास्तुन्नाः सीवन्यः स्युरुलुखलाः ।

सामुद्गा मण्डलाः शङ्खावर्ता वायसतुण्डकाः ॥९३॥ मूनीन्द्रैरस्थिसन्धयः । समुहिष्टा इत्यष्टघा

Dhanvantari,⁷ however, has spoken of only three hundred bones. (92b)

10. Bone joints,/their number and types : 92c-94b

As pointed out by the sages, the joints are two hundred and ten in number, classified into eight types, viz. koraka¹,

The other four group units of bones are-one above the sacrum, one above the chest, one at the junction of the thorax and abdomen, and one at the acromial end of the scapula (cf. Susruta Sa. Stha. 5.15.16. Also see p. 163 Bhishagratna). It is notable that Susruta concedes that other authorities count four more samphata-s.

Obviously the joints enumerated here refer to the joints of the bones. These are divided into two classes by the modern medical science, viz., immovable, i.e., synarthrosis and movable, i.e., diarthrosis. The names of the various types such as kora etc. are indicative of the shapes they resemble, and their respective significations are elucidated in the notes. The particular joints of the body covered under each type are as under :

- 1. Koraka-joints in the fingers, wrists, ankles, knees and elbows.
- Pratara-joints in the neck and the spinal columns. 2.
- Tunna-sivani-joints found in the kapala bones of pelvis and 3. the forehead.
- Ulakhala or Udakhala-joints in the axilla (i.e. the shoulder 4. joint, in the teeth and in the hips).
- Samudga-joints in the region of the anus, vagina, shoulders 5. and hips.
- Mandala-joints around the heart, throat, eyes and kloma. 6.
- Sankhavarta-joints in the bones of the ears and nostrils. 7.
- Vayasatunda-joints on either side of the cheek bones. 8.
- An ancient authority of Indian medical science. 7.
- 1. Koraka, lit. means hinged or lap-shaped.

11. अन्यसन्धीनां संख्या

मतम् ॥९४॥ पेशोस्नायसिरासन्धिसहस्रद्वितयं

12 स्नायवः

नव स्नायशतानि स्युश्चतुर्धा स्नायवो मताः । प्रतानवत्यः सूषिराः कण्डराः पृथुलास्तथा ॥९५॥

bratara², tunna · sīvanī⁸, ulūkhala⁴, sāmudga⁵, māņdala⁶, sankhāvarta⁷ and vāyasatundaka⁸. (92c-94b)

11. The number of other joints : 94cd

The joints of muscles, sinews and veins are considered to be two thousand. (94cd)

12. Ligaments¹: 95-96

There are hine hundred ligaments² classified into fo ur

(cf. Suśruta Śa. Schā. 5. 28-32, Bhishagratna, p 167, Vol. II and Ghanekar, p. 168, Vol. 11.)

The eight types of the joints have been classified by Ghanekar in consonance with the modern medicine as under :

	Кота	Pivot				
		Saddle				
Cala, i. e.		Condyled	Diarthrosis			
movable		Hinge				
	Vāyasatuņļa	Arthrodia				
	Pratara					
	Ulūkhala or					
<i>Acala</i> i. e	, Udûkhala	Gomophoses				
immovab	le		Synarthrosis			
	Tunna-śivani	Sutures				
	Samudga	Amphiarthroses				
2.	Pratara, lit. means a raft.					
3.	Tunna-Stoant means seam	-like or dove-taile				
4.	Ulukhala suggests the sha		:ket.			
5.	Samudga is like the back					
6.	Mandala, lit means a cir	cle or circular.				
7.	7. Sankhavarta indicates the involutions of a conch-shell.					
8.	Vayasatunda means the ci	row-back.				
1. 2.		ted as ligament in	this context.			

Treatment	of	Svara
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बन्धनैबंहुभिर्बद्धा सूरिभारक्षमा भवेत् । नौरम्भसि यथा स्नायुशतबद्धा तनुस्तथा ॥९६॥

groups, viz., pratānavatī⁸ susirā⁴ kaņdarā⁵ and pṛthulā.⁶ Just as (the planks of).a boat being tied together by many fastenings become strong enough to bear a huge burden (floating) on water, so also (the joints of) the body being fastened by the ligaments (becomes strong). (95-96)

The four groups of the *snāyu-s* correspond to ligaments, sphincter muscles or valvulor bands of muscles, tendon, and flattened or ribbon-shaped tendons or aponeuroses as stated by Ghanekar (Vol. II, pp. 158. 159) and Suśruta (Śā. Stha. 5.38-40).

In Ayuroeda the word snayu also means a muscle, obviously the number 900 includes ligaments, tendons and aponeuroses along with some of the muscles. The word generally means fibrous tissue. So the word snayu has only loosely been translated as ligament. The four types of ligaments are elucidated as under :

- 1. Pratanavati type : The ligaments of the four extremities and their joints.
- 2. Sujira " The ligaments of stomach, intestines and the bladder.
- 3. Kaudara or " All the large ligaments. Villa
- 4. Prthula ,, The ligaments of the chest, back, sides and head.

The function of the ligaments is explained by the analogy of a boat. The many planks by themselves cannot serve the purpose of a raft, but when they are joined together and tied to form a boat they become strong enough to carry a certain load across a river; similarly, the various parts of the body when fastened together by the ligaments render the body strong and movable. Such is the importance of the ligaments (cf. Bhishagratna, pp. 168, 169 and Suíruta Śa. Stha. 5.30-36).

- 3. Pratanavati lit. means ramifying or branching.
- 4. Susira lit, means hollow.
- 5. Kandard lit. means a cave and is suggestive of a cylindrical form; however the other name for it, viz., vitta implies a round or a ring shape.
- 6. Prthula is derived from prthu which literally means thick or broad.

13 पेशयः

पञ्च पेशोशतान्याहुः शरीरस्थानि सूरयः । अधिका विंशतिः स्त्रीणां तत्र स्युः स्तनयोर्दश ॥९७॥ यौवने ताः प्रवर्धन्ते दश योनौ तु तत्र च । हे अन्तः प्रमृते बाह्ये हे तिस्रो गर्भमार्गगाः ॥९८॥ शङ्ख्वनाभ्याकृतिर्योनिस्त्र्यावर्ता ऽत्र तृतीयके । आवर्ते गर्भशय्या ऽस्ति पित्तपक्वाशयान्तरे ॥९९॥ रोहिताभिधमत्स्यस्य सदृशी तत्र पेशिका । % शुक्रार्त्तवप्रवेशिन्यस्तिस्रः प्रच्छादिका मताः ॥१००॥ 13. Muscles: 97-100

The sages speak of five hundred muscles in the body, while there are twenty more in case of women, i.e., ten in the two breasts that grow in youth and ten of the vagina, two spreading outwards¹, two inside it and three in the vaginal canal. (97-98)

The vaginal canal is in the shape of a conch-shell with three involuted turns², at the last of which lies the foetal

Five hundred muscles in the body along with twenty extra of women make five hundred and twenty which may be compared to five hundred and nineteen of the modern medical science. Regarding the twenty extra muscles of women, Bhishagratna writes on Suśruta (Śa. Sthā. 5. 42-43) : "Females have twenty extra muscles; ten muscles are to be found about the two breasts, five in each, which attain their full growth during puberty; four muscles are present about the parturient passage; and of these (four) two are about the external and two in the internal orifices (of the vagina), three about the region of the OS, and three about the passages of the ovum and the sperm." This makes the situation clear. The last three of these are mentioned in the next two verses.

The uterus is like a muscle resembling rohita fish in shape. Susruta (Sa. Sthā. 5. 56) says that uterus resembles the mouth of the rohita fish. It seems that our author too has adopted this idea from Susruta and if so, then 'matsyasya' of the text may better be read as matsyāsya, signifying, not "of the resemblance of" but, "resembling the mouth of" the

- 2. Avarta of the text literally means a whirlpool.
- Ad. ed. reads धुवसा०

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^{1.} These two constitute the sphincter vagina (cf. Ghanekar on Susruta Sa. Stha. 5 55, 56).

14. सिराधमनिकानां सङ्ख्या सिराधमनिकानां तु लक्षाणि नवविंशतिः । सार्धानि स्युर्नवशती षट्पश्चाशद्युता तथा ।।१०१॥

bed⁸ resembling the fish called *rohita*⁴ in-between the gallbladder and the intestines. Three⁵ (muscles) are known as the coverings (of the uterus) serving for the entrance of the ovum and the sperm. (99-100).

14. The number of arteries and veins : 1 1

The number of arteries and veins (in the body) is 29, 50, 956. (101)

rohita fish. The mouth of the rohita fish is said to be narrow at the mouth and expanded at the end.

The description of the vaginal canal is compared by Ghanekar with the account given in Gray's anatomy "The vaginal canal like the shape of a conch-shell is constricted at its commencement, dilated in the middle and narrowed near its uterine extremity (Ghanekar, Vol. II, p. 164 commenting on Susruta 5.55-56).

He further says that there is nothing like the whirlpools in the constitution of the vaginal canal but its inner layer of skin is marked with ridges.

The word sub denotes veins, nerves, arteries and lymphatic vessels. Our author however is dealing with the arteries separately in the subsequent few verses. Subruta (Sa. Sthä. 7.2) straightaway speaks of seven hundred sirà-s, therefore the ten primal sirà-s are peculiar to our author who subsequently mentions that these ten branch off into seven hundred. Subruta who also speaks of *dhamanl-s*, i. e., arteries later, describes forty principal sirà-s of four types viz., ten vàyu (wind)-carrying, ten *pitta* (bile)-carrying, ten conveying kabha (phlegm) and ten blood-carrying, which are respectively identified by Bhishagratna (Vol. II, p. 192) as nerves, veins, lymphatic vessels and arteries. Some people, however, interpret sirà-s for veins and *dhamanl-s* for arteries. But, one cannot really make such a sharp distinction, for the two terms are sometimes used indiscriminately.

15. मूर्लसिराः, भिन्नसिराश्च दश मूलसिरा ओजोवाहिन्यो हृदयाश्रयाः । द्वचङ्गुलं चाङ्गुलदलं यवं यवदलं तथा ।।१०२।। गत्वा द्रुमदलस्येव सीवन्यः प्रतता यदा । भिद्यन्ते तास्तदा सप्त शतानि परिसंख्यया ।।१०३।। तासु जिह्वास्थिते द्वे द्वे वाग्रसज्ञानकारणे । घ्राणे गन्धवहे द्वे द्वे मेषोन्मेषक्वतौ दुशोः ।।१०४।।

श्रोत्रयोः शब्दवाहिन्यौ तासु द्वे शाङ्गिणोदिते ।

Section - - - -

15. The number of major and minor vessels of vital essence: 102-105b

There are ten primal (blood-vessels) carrying the vital essence abiding in the heart. (102 ab)

Spaced from two fingers¹ and a half to a barley² corn and a half, when the capillaries spread to branch off like the leaf-veins, then they number seven hundred. (102c-103)

Of these,³ two veins that cause speech and two causing the perception of taste are located in the tongue; two in the nose for the perception of smell and two in the eyes causing the winking (of eyelids); and two pertain to the ears, carrying sound (waves) as declared by Dhanvantari⁴. (104-105b)

The ten primal-tubular vessels springing from the heart are interspaced at the length of two fingers and a half, to begin with; and gradually they branch off into narrower and finer tubular veins etc., spaced at the length of a barley and a half. Thus finally the *sira-s* are counted to be seven hundred in all as mentioned by Su⁵ruta, according to whom they spring from the navel region.

- 1. Angula is equal in length to eight barley corns. Twelve angula-s make a vitasti (a span) and twenty-four angula-s make for a hasta (a cubit).
- 2. A measure equal to one-sixth or one-eighth of angula (i. e, the finger breadth).
- 3. Perhaps, of the ten primal ones.
- 4. The divine physician considered to be the father of Indian medicine.

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^{3.} Garbhāšaya, according to Ghanekar, also means uterus, but here it is the foetal cavity that is indicated.

^{4.} Matsya-sya of the text may be read as matsydsya-sadfil in view of the above comments.

^{5.} These are the three remaining out of the ten spoken of above (Verse 97-98 ante).

16. रसवाहिन्यो धमन्यः

रसवाहिन्यश्चतुविंशतिरोरिताः ॥१०५॥ धमन्यो कुल्याभिरिव केदारास्ताभिर्देहो ऽभिवर्धते । एताः प्रतिष्ठिता नाभ्धां चक्रनाभावरा इव ।।१०६।। दशाधस्ताच्चतस्रस्तिर्यगायताः । ऊर्ष्वं दश अर्घ्वगा हृदयं प्राप्ताः प्रतायन्ते पृथवित्रधा ।।१०७।। वातं पित्तं कफं रक्तं रसं द्वे द्वे विमुञ्चतः । शब्दं रूपं रसं गन्धं द्वे द्वे तत्रावगच्छतः ।।१०८।। दे दे च भाषणं घोषं स्वापं बोधं च रोदनम् । कूर्वति द्वे नरे शुक्लं स्तन्यं तु स्रवतः स्त्रियाम् ॥१०९॥ अधोगता अपि त्रेधा प्थक्पक्वाशयस्थिताः । प्रवर्तयन्ति तत्राद्या दश वातादि पूर्ववत् ।।११०।। अन्नं भक्तं धमन्यौ द्वे वहतो ऽम्बूसमाश्रयात् । तोयं मूत्रं बलं द्वे द्वे नारीणामार्तवं त्विमे ।।१११।। विनुःचतो द्वे स्रोतांसि द्वे स्थुलान्त्रान्विते शकृत् । स्वेदं समर्पयन्त्यष्टो.

तिरक्ष्यां बहुधा मताः ॥११२॥

रोमकूपेषु सन्त्थासां मुखानि स्वेदमुक्तये। प्रवेशयन्ति चाभ्यङ्गलेपादिप्रभवान्रसान् ॥११३॥

16. The arteries carrying lymph-chyle (rasa): 105c-113

The arteries carrying lymph-chyle (rasa) are known to be twentyfour and like a field nourished by channels of water, the body (fed by them) also grows. (105c-106b)

These (arteries) are so rooted around the umbilicus¹ as the spokes fitted into the hub of a wheel. (106cd)

Suśruta (Śā. Sthā. 91.92) refers to several authorities who emphasise that no arbitrary distinctions should be made between sira-s (veins), Section 2 : The Genesis of the Human Embournment

(Of these) ten proceed upwards, ten downwards and laterally. The upward coursing (arteries) reaching the heart ramify into three (branches) each.⁸ (Of these) two each respectively conduct wind, bile, phlegm, blood and lymphcycle (rasa); two each respectively perceive the sensations of sound, form, taste and smell, two each respectively cause the activity of speech, hearing, sleep, awakening and crying; and two go to produce semen in men and milk in women (107-109).

The down-coursing arteries⁸ are also threefold and separately function in and around the intestines.⁴ The first ten function with respect to wind etc. on the above lines⁵, two carry digested food on liquid base, two each respectively release water⁶, urine, semen or the ovarian discharge of women, two are channels⁷ (*srota-s*) while two others attached *dhamani-s* (arteriers) and *srota-s* (channels) since these are all modifications of the original *sird.s* (tubular vessels). But, however, he does not agree with this opinion, holding that these different terms denote different functions performed by the *sird-s*. However, he too admits that signification.

The up-coursing thirty dha mant-s perform the function of preserving the integrity of the organs of the upper portion of the body, i. e., above the umbilicus, such as stomach, the sides and the back of the chest, the neck, shoulders and the arms (cf. Bhishagratna, Vol. II, p. 210 on Suśruta Śā. Sthā. 9.4).

The blood vessels (*dhamani-s*) sustain and maintain the integrity of the lower body, i.e., such parts as the intestines, the waist, the generative organs, the anus and the bladder.

arteries are connected to the heart (cf. Ghanekar, Vol. II. 215 and Bhishagratna, Vol. II, p. 209).

- 2. When each of the ten up-coursing arteries ramify into three, they make thirty in all.
- 3. Again the word artery is a loose_translation of sira which generally means a blood vessel.
- 4. Pakvašaya of the text obviously refers to the small intestines.
- 5. That is, two serve to carry flatus (wind), two carry bile, two phlegm, two blood and two lymph-chyle.
- 6. Toya going into the bladder becomes urine.
- 7. These two channels are not clearly related to any function. Bhishagratna, relates them to the monthly course of women (cf. Vol. II, p. 211 on Susruta Sã. Sthã. 9.6).
 - 6

^{1.} This refers to the state of embryonic body during the period of gestation, since the allantoic arteries and the umbilical veins subserve the purposes of nutrition, excretion etc. reflecting the rudimentary vascular system. After the birth, the

17. मर्मस्थानानि जोवस्थानानि मर्माणि शतं सप्तोत्तरं विदुः ।

18. रोमाणि, श्मश्रु केशाश्च सार्धकोटित्रयं रोम्णां श्मश्रुकेशास्त्रिलक्षकाः ॥११४॥ स्रोतःसिराश्मश्रुकेशेः सह रोम्णां तु कोटयः । चतुःपञ्चाशदाख्याताः सप्तषष्टचा च सार्धया ॥११४॥ लक्षाणां संहितामानं,

to the large intestines discharge the faecal matter. Eight (of the arteries) exude⁸ perspiration. (110-112c)

The lateral-coursing vessels (arteries) are considered to be countless. Their external orifices open into the pores of the skin⁹ for exuding perspiration, and also through them are entered soothing nutrients, the effects of anointment and unguents. (113d-113)

17. The vital parts (marmasthāna-s). (114ab)

The vital parts¹ constituting the life spots (of human organism) are known to be one hundred and seven. (114ab)

18. Hair on the body, beard and the head : 114c-116a

The hair on the body are 3,50,00,000; the hair of the beard and the head are 3,00,000. The combined total

Compare this with Suśruta (Śā. Sthā. 9.8) who speaks of four lateral-coursing *dhamani-s* ramifying into thousands. The *dhamani-s* are porous by themselves and they transport lymph-chyle through their pores to the entire body (cf. Suśrutā Śā. Sthā. 9.9).

- 8. According to Susruta (as quoted above) these eight convey the perspiration to lateral-coursing veins.
- 9 Romakūpa lit. means the root(s) of the hair on the body, i.e., the pores into which the hair are rooted.
- 1. Marma is defined 'marayantiti marmani' (Dalhana), i.e. 'Those parts that (tend to) cause death; in other words, those vital parts which when injured cause the collapse of the entire organism' The concept of marma is unique to Ayurveda. In fact there are many such concepts that can hardly be rendered into English in terms of modern anatomy.

19. देहस्थरसानां मानम्

जलावेरघुनोच्पते । दशाञ्जलि जलं ज्ञेयं रसस्याञ्जलयो नव ॥११६॥ रक्तस्याष्टौ पुरीषस्य सप्त स्युः इलेष्मणस्तु षट् । पित्तस्य पश्च चत्वारो मूत्रस्याञ्जलयस्त्रयः ॥११७॥ वसाया मेदसो द्वौ तु मज्ज्ञ एको ऽञ्जलिर्मतः । अर्घाञ्जलिः शिरोमज्जा श्लेष्मसारो बलं तथा ॥११८॥

number of the channels, veins, hair of the beard, on the head and on the body is 54,67,50,000. (114c-116a)

19. The measure of fluids in the human body : 116b-118

Now we are to describe (the measure of) the acqueous element¹ (of the body). Ten $a\bar{n}jali-s^2$ of water, nine of lymph-chyle, eight of blood, seven of faecal matter, six of phlegm (or mucus), five of bile, four of urine, three of muscle fat, two of fat, one of bone marrow, half an $a\bar{n}jali$ each of head marrow³, colloidal vital⁴ essence and seminal fluid. (116b-119)

Srota-s ordinarily signify tubular structures in the body such as ducts, blood vessels and capillaries. This word illustrates another such concept which does not easily lend itself to be translated precisely. Our author does not write much on the marma-s and the srota-s, and therefore, the temptation to give detailed information on these topics on the basis of Susruta is well restrained.

- 1. The acqueous element is found (i) associated with faecal matter, (ii) in the outer skin, (iii) below the skin and (iv) exuding from hair follicles, viz., perspiration.
- 2. Measure equal to the cavity formed by joining one's two hands in a cup-like fashion.
- 3. Śiromajjā of the text. Cf. Caraka Śā. Sthā. 7.15, who identifies it with brain (mastişka).
- 4. Śleşmasūra of the text.

20. उपसंहारः इति प्रत्यङ्गसंक्षेपो विस्तरस्त्विह तत्त्वतः । अस्मद्विरचिते ऽध्यात्मविवेके वोक्ष्यतां बुधैः ॥११९॥

20. Concluding remarks: 119

Such has been the brief treatment of the sub-organs. The enlightened ones interested in a detailed study may refer to our work entitled "Adhyātma-viveka". (119)

As it has been stated earlier, Särngadeva was himself a qualified doctor and wrote another work referred to above on anatomy and medicine. But this book is probably not available today. Here he completes his treatment of human embodiment.

It has been noted (vide our comments on l ante) that Sāradātanaya, a contemporary of our author has quite independently and very briefly dealt with human embodiment in the context of geyasamulpatti (the creation of music). It will be interesting to take a comparative view of the manner of their treatment of the subject and to discover the difference in the point of their emphasis.

Śāradātanaya deals with the following topics in his exposition of *geya-samutpatti* which obviously determines his approach and relative emphasis:

"Announcement for expounding geya, music—the thirtysix elements of creation—the creation—the entry of the knowing self into the womb—the genesis of human embodiment—description of the body produced from the womb, classification of praya-s, their place and function—the ten gross nadi-s of the heart—their bifurcation into 700 nadis and so on." (cf. Bhavaprakasanam, pp. 180-184-Baroda Ed.)

A similar number of subjects related to human body is dealt with in conjunction with the production of sound. A list of these subjects will be given in Section three (8c-9), although much of what is said by him is also relevant to the next topic of this Section, viz., "Genesis-The Psvcho-physical Viewpoint", but all the same he does not explicitly deal with the psycho-physical centres of the body.

घ. हठयोगानुसारि निरूपगुम् (i) दशचकाणि 1. आधार-चक्रं कुग्डलिनी च चक्रमाधाराख्यं चतर्दलम । गुदलिङ्गान्तरे वीरपूर्वकः ॥१२०॥ सहजस्तद्वदानन्दो परमः स्यादैशानादिदले योगानन्दश्च फलम् । तत्र ब्रह्मशक्तिराधारपङ्को ॥१२१॥ अस्ति कण्डलिनी नोतेयममृतप्रदा । आब्रह्मरन्ध्रमृजुतां

D. Genesis : The psychophysical viewpoint.

(i) Ten cakra-s (psychophysical centres): 120-145b

1. Adhara-cakra and kundalini : 123-122b

Situated in-between¹ the anus and the genitals is the basic psychic centre called the 'foundational cycle' (adharacakra), a four-petalled lotus as it were. The petals named

Six psycho-physical centres are conceived in the astral body of man by certain schools of *loga*, specially, the *kundalini-yoga*, the *mantrayoga*, the *rdja-yoga*, etc. These function as the centres of consciousness at various planes and concentration and control of one or many of these centres bestows enormous psychic and occult powers. However, the aim of *yoga* is to train the mind to concentrate upon and penetrate through all these six psycho-physical centres and thereby to attain complete mastery over the physical and the astral body and freedom from the limitations of mind and matter.

The first centre spoken of in this verse is named müladhara, which literally means the basic support, the foundation. Here at this centre the kinetic energy is said to be asleep in a static mood and it can be aroused through meditation. The four-petalled lotus spoken of in the text is a symbolic expression used as an aid to meditation on the centre, when the slumbering energy is awakened, it rushes through the spinal cord to the next higher centre at a terrific speed, and the aspirant finds

^{1.} Corresponding to the sacrococeygeal plexus.

Isana ctc.², are invested with the fruits of supreme bliss, spontaneous happiness, heroic joy, and the divine unity respectively. (120-121)

In the centre of the foundational cycle⁸ lies the creative⁶ power of the supreme Being⁵ called *kundalini*⁶, which

bimself uplifted to a different plane of consciousness with a different perception and value judgement.

Here the value of concentrating separately, i. e., individually upon the four respective petals of the symbolic lotus is expressed in different kinds of bliss. This concept seems to be peculiar to Sangitaratnākara and 'K' suggests that it relates to the position of the embodied consciousness (the transmigratory soul) in this cakra at the time of birth. This will be elucidated later (vide comments on .40.141b). It is not possible, nor perhaps advisable to elucidate the whole symbolism of the kundalin1-yoga here but the underlying idea can be summarised in the following way:

Letters of alphabet (i. e. Devanàgari script in this case) are inscribed on the petals of the lotuses of the various centres. The letters so assigned represent symbolically the particular mantra and the presiding deity of that mantra, and thereby are the potential sources of the power inherent in those deities. These powers can be invoked by meditation. In this general background, it may now be noted that the four petals of the foundational cycle have the letters va, sa, sa and sa assigned to them. Furthermore there are great many details regarding the colour, the predominant element etc. of the various cycles with which we need not concern ourselves here, except in a general way.

2. The names of the other three petals are agneya, nairita and vayavya. In this respect K. R. informs as under:

"From the front clock-wise are the four points, namely east, south, west and north, and four intermediate points, namely, south-east, south-west north-west, and north-east. North east is 15 ana (the position presided by Siva). The other three points in order of the fruits described are south-east, southwest and north-west."

- 3. The adhara pankaja of the text.
- 4. Brahma-sakti of the text.
- 5. Brahman of the text.
- 6. Kundalini literally means coiled up, curved, zig-zag like a serpent; that is perhaps why Sir John Woodroffe called it the serpent Power Kumaraswmiji of Tapovana, Dharwar, describes kundalini in the following words: "Kundalini is the residual power, the power left over after the production of the body when it coils itself around the soayambhu linga that is, the conus medullaries" (cf. Chakra Vol. III, 1971, p. 112).

2. स्वाधिष्टान-चक्रम्

Section 2.1. Factor in a sector

स्वाधिष्ठानं लिङ्गभूले षट्पत्रं चक्रमस्य च ॥१२२॥ पूर्वादिषु दलेष्वाहुः फलान्येतान्यनुक्रमात् । प्रश्रयः क्रूरता गर्वनाशो मूर्च्छा ततः परम् ॥१२३॥ अवज्ञा स्यादविश्वासः कामशक्तेरिदं गृहम् ।

in the event of being unfolded⁷ bestows immortality.⁸ (121c-122b)

2. Svādhisthāna-takra : 122c -121b

Situated at the root of the genitals is the six-petalled lotus, the psycho-physical centre called 'self-abiding cycle'

The creative power of the supreme Being, of Brahman, the kinetic energy, the *sakti* of Siva and the maya of Brahman, the power of creating appearances, is stationed at the root of the spinal column. Ordinarily this energy lies curved into a coil (i. e., three rounds and a half) and that is why it is called *kundalint*. But by concentration and meditation its coils are unfolded and in that event it rushes up the spinal cord to the upper cerebrum and reaches the mystic cerebral aperture (brahmarandhra) and this results in enlightenment, an experience of timeless being which is immortality.

Though it may be a matter of greater detail, yet in the context of this verse it may be pointed out that according to the *Salcakranirūpaņa* the foundational cycle is the place where the female principle represented by a triangle, the *yoni* known as *traipura* is located, and in this triangle is set the male principle represented by the *svayambhū* (lit. self-born) linga. Kundalinī which is the creative power of the absolute Brahman or the energy aspect of non-relational-reality, lies coiled over the *svayambhū Śiva-linga* (referred to above) covering the entrance to the *suşumuā-nādī* with her head. It is this entrance which is technically known as Brakmadvāra (lit. the doorway to the absolute).

The word svādhisihāna (etyomologically analysed as sva+adhi+ sthāna, i. e., one's own seat) is variously interpreted. Some identify sva

8. Literally, 'ambrosia'.

^{7.} Literally, 'straightened' or 'uncoiled'.

(svādhisthāna-cakra).¹ The consequent fruits⁸ of (concentration on) the eastern and the other petals are respectively said to be courtesy⁸, cruelty, freedom from pride⁴, stupor, disrespect and distrust. This is the seat of passion.⁵ (122c-124b)

with the *Śivalinga*, i.e., the *Para linga*, the supreme one of the four symbolic *linga-s* of this yoga. Then the word *svadhişikana* would mean abode of Śiva. But others interpret *sva* etymologically with reference to the *kundalini* power, implying this cycle to be the abode of its own power. However, it would be rewarding if one were to have a look at the result of meditating on this *cakra* as given in the *Saicakranirūpaņa* (cf. verse 18 as translated by Sir John Woodroffe in his 'Serpent Power', p. 364).

"He who meditates upon this stainless lotus, which is named svadhisthana, is freed immediately from all his enemies such as the fault of ahamkara (ego and so forth etc."

The enemies referred to are kama, krodha, lobha, moha, ahamkara, i. e., desire, anger, greed, delusion and ego. It is these five that are at the root of all self-centred activity, worldliness and sin, all that turns man into a beast. Thu: it is obvious that this cycle is the centre, the abode of the illusive power of maya, the kundalini.

The six petals of the lotus bear the six letters from left to right ba, bha, ma, ya, ra, and la, with a dot above (anusvāra).

1. Stadhisthana literally means self-supporting. This centre corresponds to the sacral plexus in the physical body. The specific power developed through meditation on this centre is transcendence of the sex-consciousness.

- 2. The underlying idea seems to be that specific qualities are developed through concentration on different petals. These qualities are mental dispositions of various colours.
- 3. Courtesy is thus developed by meditating on the eastern petal and so on.
- 4. Lit. destruction of pride.
- 5. When *kundalini* is released from this centre and is pushed up in the next higher one described subsequently, control with regard to sexual power is gained.

Section 2: The Genesis of the Human Embodiment

3. मणिपूर-चक्रम् . नाभौ दशदलं चक्रं मणिपूरकसंज्ञितम् ॥१२४॥ सुषुष्तिरत्र तृष्णा स्यादीर्ष्या पिशुनता तथा । लज्जा भयं घृणा मोहः कषायो ऽथ विषादिता ॥१२४॥ क्रमात्पूर्वादिपत्रे तु स्याद्भानुभवनं च तत् ।

3. Manipūraka-cakra : 124c-126b

The ten-petalled lotus, the psychophysical centre called the 'navel cycle'¹ (manipūraka cakra) is located around the navel. The results flowing out of (meditation on) the eastern and other petals respectively are: dreamless sleep², craving, jealousy, fault-finding nature, bashfulness, fear, hatred, stupidity⁸, impropriety and dejection. This centre is the seat of a particular prāņa called bhānu⁴. (124c-126b)

Manipūra or manipūraka-cakra is also called nabhi-padma, i. e., the navel lotus as it is located around the region of the root of the navel. That is why it has conveniently been named as the 'navel cycle'. The name manipūra is explained in a round-about way. It is said in the Gautamiya Tantra (cf. Serpent t'ower, p. 119) that owing to the presence of the fiery tejas (brilliance) this centre is lustrous as a gern (mani) and so it is called manipūra.

It is suggested by Sir John Woodroffe that the gross body is evolved out of the power involved in these three centres. The higher centres are concerned with mental development, i. e., the subtle body or the thought body etc. During the waking state attention is ordinarily centred on either of these three centres (cf. Serpent Power, p. 120).

The ten petals of the lotus of this cycle bear the letters da, dha, na, ia, ia, ta, da, da, na, pa and pha with a dot above (anusvāra).

- 1. Manipuraka of the text indicates the abdomen. This centretranslated as the 'navel cycle' corresponds to the solar plexus which forms a centre of a great function of the right and the left sympathetic chains pingala and ida; with cerebro-spinal axis connected to this is the lumber plexus.
- 2. 'S' defines dreamless sleep as the cessation of all sensual and mental activity.
- 3. Moha is defined by 'S' as a state of mind in which, even while awake one is unaware with regard to an object in the field of his normal perception.
- 4. Bhanu literally means the sun.

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Treatment of Svara

4. अनाहत-चक्रम्

शिवस्य प्रणवाकृतेः ॥१२६॥ हृदये ऽनाहतं चक्रं पूजास्थानं तदिच्छन्ति दलैर्द्वादशभियुंतम् । वितर्को ऽप्यनुतापिता ।।१२७।। लौल्यप्रणाशः प्रकटो आशा प्रकाशश्चिन्ता च समीहा समता ततः । वम्भो वैकल्यं विवेको ऽहंक्रतिस्तथा ॥१२८॥ क्रमेण पूर्वादिदलस्थस्यात्मनो फलान्येतानि जगुः ।

4. Anāhata-cakra : 126c-129b

In the heart is located the psycho-physical centre called the 'cycle of the unmanifest'¹ (anāhata-cakra), with twelve petals which is considered to be the place of worshipping lord Siva in the form of Om.² (126-127b)

The consequences meeting the mind concentrated upon eastern and other petals respectively are freedom from fickleness, clear thinking³, repentance, hope, light⁴, worry, desire

The andhata-cakra is the psycho-physical centre wherein manifests 'Sabda-brahman' a concept which can best be conveyed in English by the expression 'the absolute manifested as the inarticulate word'. This centre is said to be the seat of the embodied consciousness, i. c., the *Jupatman. Andhata ndda* or Unmanifest sound is associated with this centre which is considered to be the pulse of life. It is said in the *Satcakranirūpaņa* that one who meditates on this centre becomes a master of speech and gains the power to create and to destroy. This lotus is the seat of Siva and the residence of *hainsa* (the *Atman*, cf. verse 26). Its twelve

- 1. Anahata of the text literally means unstruck, i. e., unmanifest. This corresponds to cardiac plexus and controls the heart.
- 2. Om, properly written as aum is the sacred syllable of mystic value. Every vedic chant begins with Om and every mantra begins with Om. The three letters, two vowels combined into its make, 'a' and 'u' and the consonant 'm' symbolise the three phases of consciousness, viz. the waking state, the dream state and the dreamless sleep state; while, the dot given above it, the 'candrabindu' denotes the turiya, i. e., total Being. There are great many details about it but suffice it to note that the letters of Om are symbolic.
- 3. Literally, vitarka means deliberation.

4 'S' defines it as 'the absence of the non-perception of form'.

Section 2 : The Genesis of the Astronomic main from the

5. विशुद्धि-चक्रम्

कण्ठे ऽस्ति भारतीस्थानं विशुद्धिः षोडशच्छवम् ।।१२९।। तत्र प्रणव उद्गीथो हुंफड् वषडथ स्वधा । स्वाहा नमो ऽमृतं सप्त स्वराः षड्जादयो विषम् ।।१३०।। इति पूर्वादिपत्रस्थे फलान्यात्मनि षोडश ।

for warding off evil, equanimity, vanity, mental instability, discernment and will.⁶ (127c-129b)

5. Viśuddhi-cakra : 129cd-131b

The psycho-physical centre with sixteen petals, called the 'cycle of purity'¹ (visuddhi cakra) is situated in the throatlarynx and is known as the abode of *Bhāratī*, the goddess of learning. Contemplation on the eastern and other petals offers the following results respectively : praņava². udgītha⁸,

petals bear the letters; ka, kha, ga, gha, ha, ca, cha, ja, jha, j $\tilde{n}a$: la and tha with a dot above.

Fhis centre is situated at the base of the throat. Visuddhi-cakra is so called because the ego-soul having perceived the spirit-soul, i.e., the *jivatman*, the embodied consciousness having discovered the *atman*, the boundless being within, in the 'cycle of the unmanifest', the *anahata*cakra, gets 'purified'. Thus it is endowed with the power to perceive the three phases of time, viz. the past, present and future. This centre is considered to be the gateway to the final emancipation from all limitations of consciousness. The sixteen petals of the lotus have sixteen vowels (from a to ab) for their symbols with a dot above them.

Satcakranirüpaņa describes the results of meditating upon this centre as under (cf. verse 31 as translated by Sir John Woodroffe in (Serpent Power, p. 391):

- 5. Literally, ahankfti may be translated as ego.
- 1. Visuddhi literally means purity. This corresponds to the layryngeal plexus.
- 2. Omkara is prefixed to every vedic chant.
- 3. Udgitha is the second part of a Saman chant which has five parts in all, viz., prastava, udgitha, pratihara, upadrava and nidhana, in serial order. Omkara is also used in the commencement of the udgitha as we are informed by 'K'.

6. ललना-चक्रम्

ललनाऽऽस्	यं घण्टिकायां	चक्रं	द्वादशपत्रकम् ।।१३१।।
मदो म	ानस्ततः स्नेह:	शोकः	खेदश्च लुब्धता ।
अरतिः	संभ्रमश्चोमिः	श्रद्ध	ातोषोपरोधिताः ॥१३२॥
फलानि	ललनाचक्रे	स्युः पु	र्यादिदलेष्विति ।

humphat⁴, vaşat⁵, svadhā⁶, svāhā⁷, namaķ⁶, nectar⁹, the seven tones şadja¹⁰ etc. and poison. (129c-131b)

6. Lalanā-cakra : 101c-133b

The psychophysical centre called *lalanā*¹ with twelve petals is situated in the back of the neck. The consequences emerging out of (concentration upon) the eastern and the other petals respectively are—arrogance, haughtiness, affection, sorrow,² agony,³ greed, disenchantment, emotional

"He who has attained complete knowledge of the *Atman* (*Brahman*) becomes, by concentrating his mind (*citta*) on this lotus, a great sage, eloquent and wise, and enjoys uninterrupted peace of mind. He sees the three periods and becomes the benefactor of all, free from disease and sorrow and long-lived, and like *hamsa*, the destroyer of endless dangers."

The lalana-cakra, though well-recognised, is not counted among the six main psycho-physical centres in the body demonstrated in such

4. Humphad is a non-inflectional syllable uttered while pouring an oblation into the sacrificial fire.

5,6,7. These too are similar syllables as humphat.

- 8. Namah lit. salutation.
- 9. The ambrosia.
- 10. The names of the other notes are *stabha*, *gandha1a*, *madhyama*, *pañcama*, *dhaivata* and *nisāda* as we shall come across further in the text.
- 1. This word has not been translated, for it is not found worthwhile to do so in this case The word literally means a woman, a wanton woman or tongue and it seems the word cannot be significantly interpreted in any of these terms. So the word has to be accepted as a technical one.
- 2. 'S' defines foka (sorrow) as misery caused by known factors.
- 3. And he ('S') defines *kheda* (agony) as misery due to unknown causes.

Section 4 . I ne Ornears of the sentime

7. आज्ञा-चक्रम्

भ्रूमध्ये त्रिवलं चक्रम।ज्ञासंज्ञं फलानि तु ।।१३३।। आविर्भावाः सत्त्वरजस्तमसां क्रमतो मताः ।

excitement, the basic urge for living,⁴ devotion,⁵ satisfaction and cleverness (131c-133 b).

7. Ajñā-cakra: 133c-134

The psycho-physical centre called the 'cycle of supreme command'¹ ($\bar{a}j\bar{n}\bar{a}\ cakra$), having three petals is located inbetween the two eye-brows. The results of (contemplating upon) the various petals respectively are the manifestations of the three guna-s—sattva, rajas and tamas². (133c-134b)

standard works as Salcakranirupana. This centre is also called kala-cakra by some writers and is located at the root of the palate.

Ajna-cakra is so called because it is said that the ajna (command) of the guru, the supreme preceptor is obtained directly by contemplating in the region of this centre. (cf. Rudrayamala Ch. XXVII, V. 68 cited by Arthur Avalon in his English translation of the *Satcakra-nirūpana*, Serpent Power, p. 395—footnote 6). This cycle is the seat of the mind, of mahat and praktti, i. e., the mindstuff (consciousness), intellect. ego and will. A successful yogi, at the time of death, establishes his vital breath in this centre and consequently abides in the timeless being after death. The two petals of this lotus bear the letters ha and ksa. This completes the garland of letters of fifty petals in all.

4. Six basic urges for life are known in the Agama-s, as quoted by 'S'.

बुभुक्षा च पिपासा च शोकमोहौ जरामृती । कर्मय: पहिति प्राणवृद्धिदेहेषु संस्थिताः ॥

Hunger, thirst, sorrow, delusion, decay and death-these are the basic urges resident in the vital breath, the mind and the body.

- 5. Śraddha also means faith, it is rather an attitude of reverence, faith and devotion combined with love.
- 1. Ajna literally means 'command'. Concentration on this centre gives one the command of the body and the mind. One becomes the commander of one's forces. This centre corresponds to the cerebellum, identified by some with the pineal gland, the centre of the third or the spiritual eye.
- 2. These three comprehend the entire nature.

8. मनश्चक्रम्

ततो ऽप्यस्ति मनश्चक्नं षड्दलं तत्फलानि तु ।।१३४।। स्वप्नो रसोपभोगश्च झाणं रूपोपलम्भनम् । स्पर्शनं शब्दबोधश्च पूर्वादिषु दलेष्विति ।।१३४।।

9. सोम-चक्रम्

ततो ऽपि षोडशदलं सोमचक्रमितोरितम् । दलेषु षोडशस्वस्य कलाः षोडश संस्थिताः ।।१३६।।

8. Manaś-cakra : (134c-135)

Even higher than that is situated the psychophysical centre called the 'cycle of the mind'¹ (manus-cakra), having six petals. The consequences attendant upon the eastern and other petals respectively are dreams and the palatal enjoyment, olfactory sensation and the perception of form, touch and sound. (134c-135)

9. Soma-cakra: (136-138)

Over and above that¹ is located the psycho-physical centre called the 'cycle of the moon' (*soma-cakra*) with sixteen petals

Sir John Woodroffe (cf. Serpent Power, p. 155) comprehends the ajña-cakra and the manal-cakra jointly as the 'sensory motor tract' relating their functions in the following way :

"The ajilaraha nadi.s, efferent or motor nerves, communicate motor impulses to the periphery from this ajila-cakra, this centre of command over movements, and the efferent or sensory nerves of the special senses in pairs, the gandhavaha nadi (olfactory sensory), the rapavaha nadi (optic), the sabdavaha nadi (auditory), the rasavaha nadi (gustatory), and the sparsavaha nadi (tactile) come from the periphery (the peripheral organs of the spacial senses) to this manai-cakra, the sensory tract at the base of the brain. The manai-cakra also receives the manovaha nadi, a generic name for the channels along which centrally initiated presentations (as in dreaming and hallucination) come to the sixth lobe of the manai-cakra."

Soma-cakra is not included into the scheme of the six main psychophysical centres. The word soma, in this context, refers to the

1. "That' refers to manas-cakra.

कृपा क्षमाऽऽर्जवं घैयँ वैराग्यं घृतिसंमदौ । हास्यं रोमाञ्च्चनिचयो घ्यानाश्रु स्थिरता ततः ॥१३७॥ गाम्भीर्यमुद्यमोऽच्छत्वमौदार्यंकाग्रते क्रमात् । फलान्युद्यन्ति जीवस्य पूर्वादिदलगामिनः ॥१३८॥

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enshrining the sixteen phases (of the moon). The consequences, for the individual, attendant upon the eastern and other petals respectively are: grace⁸, forgiveness⁴, straightforwardness, forbearance, detachment, patience, cheerfulness, mirth, horripilation⁵, tears of fixed gaze⁸, stability, profundity, endeavour, purity of heart, generosity and one-pointedness. (136-138)

10. सहस्रपत्र-चक्रम् चक्रं सहस्रपत्रं तु ब्रह्यरन्ध्रे सुधाधरम् । तत्सुधासारधाराभिरभिवर्धयते तनुम् ।।१३९।।

10. Sahasrapatra-cakra : (139)

'The thousand-petalled lotus'' (suhasrapatra) which is

moon which is symbolic of a feeling of coolness when the wild fire of craving is finally extinguished by rising above the $\partial j \bar{n} \partial$ and the manas cakra-s, i. e., above the world of opposites, the world of relative perception and desire. Thus, this cycle of the moon is a symbol of coolness, as the rays of the moon are cool, refreshing and delightful, and is the source of altruistic sentiments and true spiritual consummation.

The thousand petals spoken of in this lotus are symbolic of infinity. The sahasrāra, or sahasrapatra i. e., the thousand-lobed centre has brahma-

- 2. Soma-cakra corresponds to the middle cerebrum in the physical body and is located above the sensorium.
- 3. In the sense of favour 'S' defines ktpu as an expectation of favour from another.
- 4. According to 'S' forgiveness is characterised by absence of anger despite the cause for it.
- 5. Nicaya in the compound romañca-nicaya implies the idea of plurality.
- 6. Dhyanašru is explained by 'K' as 'dhyanaj-jātam-ašru', i. e., the tears caused by concentration of the mind with open eyes.
- 1. Sahasraputra-cakra Lit. the cycle of thousand petals of the text is suggestive of the metaphor of a wheel with thousand spokes. The concept is essentially of the cycle but this particular centre cannot precisely be called a psychophysical centre, since it is neither physical nor psychological as it leads the consciousness beyond the limitations of time, space and causation.

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^{1.} This comprehends consciousness. The six petals symbolise five senses of perception and (the sixth) the mind, and the fruits spoken of are the five respective perceptions and ideation, the activity of the mind. This cycle is not included in the scheme of the main six psychophysical centres and seems to be concerned with the subconscious and conscious mind.

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11. गीतादि्सिद्धे चकाणां साधकत्वं बाधकत्वञ्च अनाहतवले पूर्वेऽष्टमे चंकादशे तथा। द्वादशे च स्थितो जीवो गीतादेः सिद्धिमुच्छति । १४०।।

the source of nectar² is located in the cerebral aperture⁸ (brahma-randhra). Spilling innumerable streams of ambrosia⁴, it nourishes the body. (139)

11. Meditation of cakra-s as related to the cultivation of music :

The embodied soul¹ established in the (contemplation of) first, eighth, eleventh and the twelfth petals of the 'cycle of the unmanifest'² (anāhata-cakra) attains proficiency in music

randhra, the cerebral aperture as its location. This aperture is symbolic of void called parama nyoma or the highest ether or in other words, the subtlest space (cf. Saicakranir paya verses 40-48). The purport is as follows:

"Within it is the full moon, without any spot whatsoever, resplendent as in a clear sky. It shakes its rays in profusion, and is moist and cool like nectar. Inside this, shines the great void which is served in secret by all the gods." (Adapted with modifications from Arthur Avalon's translation, the Serpent Power, p. 430).

So in the void, which is identified with bindu, parabindu or Isbara or called fanya is the light which is formless (cf. Todala Tantra, 6th Ulläsa as cited by Arthur Avalon; Serpent Power, p. 431). Thus consciousness, when established in it, transcends time. And it is this transcendental consciousness that obviously is variously named as immortality, ambrosia, nectar and so on.

Now, first of all it may be made clear that 'K' has taken the view (vide his comments on 121 ante) that at the time of birth the embodied

- 2. This is obviously a metaphorical expression, for nectar when drunk bestows immortality, according to Indian mythology.
- 3. This is the void, the space in which is projected the entire vision of life and action.
- 4. Sudhāsāra of the text. This can be interpreted to mean the harmony of body, mind and soul resulting from immortality.
- 1. *Jua* generally signifies a transmigratory soul embodied in a physical body.
- 2. The anthata, lit. means unstruck. It may once again be noted that this centre corresponds to the cardiac plexus.

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चतर्थषष्ठदशमैर्दलैगीतादि नश्यति विशद्धेरष्टमादीनि दलान्यष्टो श्वितानि त् ।।१४१।। दद्यगींतादिसंसिद्धिं षोडशं तद्विनाशकम । सिद्धिदे ॥१४२॥ दशमैकादशे पत्रे ललनायां त नाशकं प्रथमं तर्यं पञ्चमं विदूः) च दलं ब्रह्मरम्प्रस्थितो जीवः सूधया संप्लुतो यथा ॥१४३॥ तुष्टो गीतादिकार्याणि सप्रकर्षाणि साधयेत । शेषेषु पत्रेषु चक्रोष्वन्येषु च स्थितः ॥१४४॥ एषां जीवो गीतादिसंसिद्धिं न कदाचिदवाप्नुयात ।

etc.⁸; while (by concentration on) the fourth, sixth and tenth of the petals one destroys one's capacity for music etc. (140-141b)

In the 'cycle of purity'⁴ (visuddhi-cakra) contemplation on eight petals from the eighth onwards leads to success in musical arts etc.⁵, while the sixteenth petal is destructive for this purpose. (141c-142b).

The tenth and the eleventh petals of the psycho-physical centre called *lalanā* bestow success (in the musical arts), while its first, fourth and fifth petals are known to be detrimental. (142c-143b)

The embodied soul⁶ whose attention is focussed in the

soul is fixed psychologically on one of the petals of these cycles, i.e., the psycho-physical centres in terms of attention, and according to the point of attention it gains the predisposition of character as already described in the foregoing pages. This particular verse seems to lend an indirect support to this view though if one were dogmatic, one may not yet find enough evidence for it.

- 3. Gttadi lit. means 'singing' or 'song' etc., but gtla or vocal music is basic to Indian music as it has already been mentioned. Moreover, 'gtta' also is used in the general sense of music, so it has been translated as such. 'S' includes instrumental music and dance as well after the concept of saigtta.
- 4. Visuddhi lit. means purity.

- 5. Gitadi lit. gila etc. implies vocal and instrumental music and dancing and may even include dance-drama
- 6. In other words the 'individual organism', which is sensitive to perception.

(ii) ब्रह्मग्रन्थिः आधाराद् द्वचङ्गुलादूष्वं मेहनाद् द्वचङ्गुलादघः ।।१४४।। एकाङ्गुलं देहमध्यं तप्तजाम्बूनदप्रभम् । तत्रास्तेऽग्निशिखा तन्वी चक्रात्तस्मान्नवाङ्गुले ।।१४६॥

aperture of the upper cerebrum⁷, being immersed in ambrosia⁶, finds fulfilment⁹ and should therefore cultivate the musical arts¹⁰ with great excellence. (143c-144b)

The embodied soul¹¹ cannot in any way accomplish anything (worthwhile) in the (field of) musical arts by concentrating¹¹ on any other petals or psycho-physical centres. (144c-145b)

(ii) Brahma-granthi : 145c-148

Two finger-length above the base¹ and two fingerbreadth below the genitals² in the space of one finger-breadth is the centre of the body, shining like molten³ gold. (145c-146b)

There is located a slender flame of fire at a distance of nine fingers from that centre⁴, and it is there that the life-

- 7. The brahma-randhra of the text.
- 8. The ambrosia of immortality, the timeless consciousness.
- 9. The person concerned realises the goal of individual existence by attaining immortality and so has nothing more to achieve in life and is thus free to devote himself to music etc.
- 10. This includes vocal and instrumental music and dance.
- 11. The individual while at the time of birth, if interested in art should devote himself to such of the petals as are conducive; that seems to be the idea.
- 1. The base is the foundational cycle, the maladhora-cakra.
- 2. Mehana of the text literally means penis, but even so the word is used in the general sense of sexual organ.
- 3. Tapla literally means—heated, but the author is using a simile in order to give an idea of the abstract. The flame itself is a symbolic expression for the creative power of life.
- 4. It is not clear if nine fingers is the distance from the maladharacakra or the centre of the body just spoken of. 'K' does not comment and 'S' offers both the alternative interpretations without a judgement. But it seems that the centre of the body should be the point of reference, for otherwise there will be no relevance for describing it.

Section	2:	The	Genesis	of	the	Human	Embodiment	99

देहस्य कन्दोऽस्त्युत्सेघायामाभ्यां चतुरङ्गुलः । .ब्रह्मग्रन्थिरिति प्रोक्तं तस्य नाम पुरातनेः ।।१४७।। तन्मध्ये नाभिचक्रं तु द्वादशारमवस्थितम् । लूतेव तन्तुजालस्था तत्र जीवो भ्रमत्ययम् ।।१४८।।

source of the body is found, four fingers in elevation as well as in extension. This⁶ has been called 'brahma-granthi'⁶ by the ancients. (146c-147)

Right in its⁷ centre is situated the 'cycle of the umbilicus'⁶ (*nābhi cakra*) with twelve spokes, and like the spider caught in (its own) net, yonder there wanders the self-conscious being.⁹ (148)

(iii) सुषुम्णा, नाड्यन्तराणि च

सुषुम्णया ब्रह्मरन्ध्रमारोहत्यवरोहति । जीवः प्राणसमारूढो रज्ज्वां कोह्लाटिको यथा ।।१४९।।

(iii) Susumņā and other nādī-s : 149-163b

Mounted upon the vital breath¹, the self-conscious entity², through the *susumna* keeps on ascending to the cerebral aperture⁸ and descending back⁴, moving like a tight rope⁵ dancer. (149)

- 5. 'This' refers to the life-source of the body.
- 6. Literally, the knot of Brahman, i. e., the root of life force.
- 7. That is, in the centre of the brahma-granthi.
- 8. The nabhi-cakra, perhaps the same as manipuraka with the difference that it has been said to have only ten petals, whereas this one is described as having twelve spokes.
- 9. The self-conscious being is the *j*tva; this idea or concept is not native to European culture and therefore is foreign to English tongue; that is why it is being elucidated in different ways on different occasions.
- 1. A metaphor is used, the rope of a dancer is compared to prana, as the dancer ascends by the rope; so the jiva ascends by prana.
- 2. That is, jiva
- 3. This is technically known as brahma-randhra.
- 4. Descending back to the base, i.e., the foundational cycle, the muladhara.
- 5. This rope seems to be vertical rather than horizontal. Perhaps it has an allusion to the Indian rope trick. This simile can

सुषुम्णां परितो नाडचः कन्दादाब्रह्मरन्ध्रतः । कन्दीकृत्य स्थिताः कन्दं शाखाभिस्तन्वते तनुम् ।।१४०।। ताश्च भूरितरास्तासु मुख्याः प्रोक्ताश्चतुर्दश। सुषुम्णेडा पिङ्गला च कुहूरथ सरस्वती ।।१४१।। गान्धारी हस्तिजिह्वा च वारुणी च यशस्विनी । विश्वोदरा शङ्किनी च ततः पूषा पयस्विनी ॥१४२॥ अलम्बुसेति तत्राद्यास्तिस्रो मुख्यतमा मताः । सुषुम्णा तिसृषु श्रेष्ठा वेष्णवी मुक्तिमार्गगा । ११५३। । कन्दमध्ये स्थिता तस्या इडा सव्ये ऽथ दक्षिणे । पिङ्कलेडापिङ्गलयोश्चरतश्चन्द्रभास्करौ 1188811 कालशोषिणी । क्रमात्कालगतेहेंतु सुषुम्णा सरस्वती कुहुश्चास्ते सुषुम्णायास्तु पार्श्वयोः ।।१४४।। इडायाः पष्ठपुर्वस्थे गान्धारीहस्तिजिह्निके । क्रमात्पूषायशस्विन्यौ षिङ्कलापुष्ठपूर्वयोः ।।१४६॥ विश्वोदरा मध्यदेशे स्यात्कुहहस्तिजिह्वयोः । मध्ये कुहयशस्विन्योर्शरणी संस्थिता मता ॥१४७॥ पुषासरस्वतीमध्यमधिशेते पयस्विनी । गान्धारिकासरस्वत्योर्मध्ये वसति शङ्घिनी ॥१४८॥ अलम्बुसा कन्दमध्ये, तत्रेडापिङ्गले क्रमात् । सव्यदक्षिणनासाऽन्तं कूहरामेहनं पुरः ॥१५९॥ सरस्वत्यूर्ध्वमाजिह्वं गान्धार्याः पृष्ठतः स्थिता । आवामनेत्रमासव्यपादाङ्गुष्ठं तु संस्थिता ।।१६०।। हस्तिजिह्वा सर्वगा तु वारुण्यथ थशस्विनी । आ ऽङगुष्ठाद्क्षिणाङ् झिस्था देहे विश्वोदरा ऽखिले ।।१६१।। Section 2: The Genesis of the Angene Angene Section 2: The Genesis of the Angene Angene Section 2: The Genesis of the Angene Angene Section 2: The Genesis of the Angene Section 2: The Genesis of

From the life-centre⁶ to the cerebral aperture⁷ the $n\bar{a}di$ -s⁶, surrounding the susum $n\bar{a}$ ⁹ and enmeshing the life-centre by their network, enlarge the body by developing their branches. (150)

These nādī-s are in a large number; but fourteen out of them are important, viz., susumņā, pingalā, idā, kuhā, sarasvatī, gāndhārī, hastijihvā, vāruņī, yašasvinī, višvodarā, šankhinī, pūsā, payasvinī and alambusā. The first three¹⁰ of these again are considered to be most significant. (151-153b)

From verse No. 151 to 159(a) the relative position of nadt-s is described.

- 6. The life-centre is the life-source spoken of in verse No. 147 ante. It is the same as brahma granthi.
- 7. That is the brahma randhra.
- 8. Nadi-s, as already explained, are the tubular vessels. The whole body is a network of the nadi-s. But the nadi-s spoken of in this context have a special significance in the science of yoga.
- 9. Susumud is the name given to the central-most nadi that proceeds from the end of the spinal column and opens into the cerebral aperture The dormant creative energy, when awakened in the foundational cycle, rises up along this nadi.
- 10. The first three are susumna, pingala and ida. Pingala is to the right and ida to the left of susumna. Prana generally flows through these two.

also have an allegorical significance. The self-consciousness of the individual attains various levels of psychological being, which in ordinary people are never held steadily and therefore give rise to various emotions and sentiments in their behaviour Through the practice of kundalint-yoga the mind is trained to concentrate on a particular psychophysical centre and thereby master a particular level of consciousness. But this again is a very delicate practice, which can be well compared with tight rope dancing, requiring a perfect balance between the opposites.

Susumma is the supreme among these three; with Vișnu as its presiding deity, it leads to the pathway of liberation. It is established in the centre of the life-source¹¹ and is flanked by *idā* on the left and *pingalā* on the right. The vital breath moving through *ida* and *pingalā* is called moon¹² and the sun¹³, for they determine the movement of time¹⁴; but, susumma destroys¹⁵ time. (153 c-155b)

Sarasvatī¹⁶ and kuhū are on the either sides of susumnā. Gāndhārī and hastijihvā are respectively situated behind and in front of idā; while $p\bar{u}s\bar{a}$ and yasasvinī are similarly¹⁷ situated with respect to pingalā. (155c-156)

Visvodarā lies in the midst of kuhū and hastijihvā, and vāruņī likewise is in the midst of kuhū and yasasvinī. Payasvinī

The psychophysical view of genesis presented by the author, pointing out the different psychophysical centres and their relation to music ends here. An analytical study of this relationship is presented in appendix II. It may, however, be observed that Śaradātanaya, a contemporary of, but somewhat anterior to Śārúgadeva, provides us the rudiments of the hypothesis incorporating this relationship. He relates the seven tones to seven different places located in the body (cf. our comments on 3-9 of Section 3) right from the Brahmagranthi. These places roughly correspond to the psychophysical centres. It can, therefore, be concluded that the line of thought linking musical sound ($\bar{a}huta n\bar{a}da$) to the yogic experience of anāhata-nāda already existed in his time.

- 11. That is, the brahma-granthi in the centre of the body.
- 12. Candra of the text.
- 13. Bhaskara of the text.
- 14. Just as the sun and the moon serve as the standards for time, or just as time is measured in terms of their movement, so is time measured in terms of the movement of the vital breath through *ida* and *pingala* respectively; for it has been found by yogic observation that the breathing process goes on alternatively through the right or the left nostril for specific periods of time.
- 15. Susumna destroys the sense of time (kala) for when the creative power is aroused in the foundational cycle and rises upto the thousand-petalled cerebral aperture (brahma-randhra), all duality ceases and there is only oneness in consciousness. Time is transcended in eternity.
- 16. Cf. Arthur Avalon (John Woodroffe): The Serpent Power, pp. 113 and 114 for a detailed account of this topic in terms of modern anatomy.
- 17. That is, puşa is located behind and yalasvint in the front of pingala.

lies, in between puşā and sarasvatī, while sankhinī exists between gāndhārī and sarasvatī and alambusā is in the midst of the life-centre¹⁸. (157-159a)

Section

Now¹⁰, *idā* and *pingalā* (extend) upto the tips of the left and the right nostrils respectively, and *kuhā* to the front of the genitals.²⁰ Sarasvatī extends upto the tongue, while *gāndhārt* is set by the back (of the body). Hastijihvā runs from the left eye to the tocs²¹ of the left foot; while vāruņī pervades the entire body; on the other hand, yasasvinī extends from the toc²² upto the right foot; while visvodarā pervades the whole body. Šankhinī extends upto the left ear and pāsā upto the right eye, while payasvinī is extended to the extremity of the right ear. Alambusā stands coiled around the root of the anus. (159b-163b)

ङ उपसंहारः

नादस्य भुक्तिमुक्तिसाधकत्वम्

एवंविधे तु देहे ऽस्मिन्मलसंचयसंवृते ॥१६३॥ प्रसाधयन्ति धीमन्तो भूक्ति मुक्तिमुपायतः ।

E. Conclusion : The value of music for enjoyment (bhukti) and for enlightenment (mukti). (163c-168ab)

Such is the body, a heap of filth surrounded by impurities of all sorts; and yet intelligent people utilise it as a means for worldly enjoyment and for salvation (163c-164b)

The purport of the author seems to point out that the physical body is so full of impurities and is a breeding ground for disease and decay, yet intelligent people do not discard it on that account; the

- 18. The same as the life-source, called brahmagranthi.
- 19. From verse No. 159 (bcd) to 163 (ab) the extension of the respective nadi-s is described. 20. Literally, penis.
- 21. Angustha of the text refers to the thumb.
- 22. As hastijihva runs from the left eye to the toe in the left foot, one might well expect in keeping with the law of symmetry in nature, that corresponding to it, *Yafasvint* should run from the right eye to the toe in the right foot; the present description, at any rate, sounds cryptic.

तत्र स्यात्सगुणाद्ध्यानाद्भुक्तिर्मुक्तिस्तु निर्गुणात् ।।१६४।। ध्यानमेकाग्रचित्तेकसाध्यं न सुकरं न्णाम । श्रीमन्नादमनाहतम् ।।१६४।। तस्मावत्र सुखोपग्यं गरूपदिष्टमार्गेण मुनयः समुपासते । सो ऽपि रक्तिविहीनत्वान्न मनोरञ्जको नृणाम् ॥१६६॥ श्रत्यादिद्वारतो तस्मादाहतनादस्य ऽखिलम् । वितन्वतो गेयं लोकरञ्जनं भवभञ्जनम् ।।१६७।। उत्पत्तिमभिघास्यामस्तथा अत्यादिहेतुताम् ।

The pursuit of the manifest¹ (saguna) leads to worldly enjoyment and the meditation of the unmanifest² (nirguna) leads to salvation. (164cd).

wise do not, due to the imperfections of the body, hate it and grow indifferent to its proper upkeep and care; on the contrary, they find in it a suitable means, not only for enjoying life in this world, but also for saving their souls in the other world as well. i.e., for gaining immortality, the final beatitude.

The author further makes it clear that Life or Divinity may be conceived either as manifest and conditioned from the individual viewpoint, i.e., delimited in time-space, or as absolute, non-dual reality from the universal point of view.

He further informs that the individual's point of view, delimited in time-space as it is, leads to worldly enjoyment. The word, 'enjoyment', i. e., *blukti* is neutral and comprehends both pleasure and pain, delight and sorrow, all the pairs of opposites in feeling, knowing and willing; *bhukti* in fact is experience. This he calls the pursuit of the manifest, i e., conditioned reality which implies the unmanifest, the unconditioned. Meditation of the unconditioned, the unmanifest, *Brahman* without any attributes, without any specific conditions leads to freedom, to perfection, to spiritual emancipation.

A reference may, in this context, be invited to Bhatta Nāyaka's concept of *bhoga*, explaining aesthetic experience being subjectively as well as objectively true and yet free from the limitations of individuality. Thus, in his view, the effective operation of the media lies Section 2. The Genesis of the Human Encoderation

Contemplation attainable through one-pointed concentration of attention is not conveniently within the reach of people⁸; therefore, under the circumstances⁴, the sages take resort to the casier means of worshipping the unmanifest $n\bar{a}da^5$, by the procedure laid down by the preceptors. Even that, being devoid of emotional colour⁶, does not interest the (common) people. (165-166)

in their efficiency to liberate the subjective self well as the object presented from the limitations of personality. From this point of view music being an auditory art, has greater advantages than other art media. Music is truly a universal language and therefore is capable of being used as a medium not only of aesthetic experience but also of spiritual experience. Indeed, music has been used as a powerful instrument for spiritual and religious awakening, specially in India. The author is stressing the point (as also in the next verse) that even though all human endeavour may culminate in the awakening of the unmanifest (anahata) nd/a within, it can best be achieved through the pursuit of the manifest (*ahata*) nda, i.e., through the cultivation of musical arts which cater to the individual, the social and the spiritual good of humanity at the material and the spiritual levels at the same time.

Now, it has been stated in the previous verse that devotion to the manifestation of deity or the manifest deity leads to worldly experience; while, one-pointed attention fixed upon the unmanifest, the attributeless, unconditioned Brahman leads to final emuncipation. With regard to worldly experience as well, the goal ultimately is to rise above need for further experience and be free from limitations of every sort. The intelligent people as it has been said, make use of the body as a means of gaining experience as well as salvation. Experiencing the sense objects and their pursuit is open to all and is also within the reach of almost all the human beings, but salvation is attained, as far as our text is concerned, by contemplating the formless, the limitless reality; and that is not approachable by all, even though that is the accepted goal of all human existence. It is not possible for everybody to meditate upon the attributeless Brahman, because it requires one-pointed concentration of mind to be held without the aid of a visible object. It requires a code of self-discipline without any external stimulus or any other source of inspiration.

^{1.} Literally, Brahman with attributes implying conditioned existence.

Timelly ottributeless Brahman implying unconditioned

^{3.} Ordinary people are meant, i. e., the average human being.

^{4.} Since the direct approach is beyond the reach of an average human being, in such a case.

E Made in minimum that sound

Now, therefore, we shall describe the creative process⁷ of the manifest sound, which expounds through (the concept of) sruti etc.⁸, the entire subject matter⁹ of music which is the means of peoples' amusement as well as of attaining

Considering these difficulties, the sages have discovered a technique of attaining liberation through the meditation of the unmanifest nada, i. e., the primordial sound which is heard inside the head if carefully listened to with an unburdened mind. This sound is produced without any contant of matter, i. e., without any friction; it is natural and spontaneous and that is why it is called *anahata* (unstruck).

But even this is found to be of little interest by common people because this sound is pure and untinged by emotional colour and therefore uninteresting to them. That is precisely why music becomes more useful and a treatise on the science of music necessary, so that people can easily cultivate both the ends of life, viz., experience of the world and salvation from its limitations through a pleasant and a convenient means like music which is universally approved and considered attractive.

In the preceding verse (166) the author has elucidated the insurmountable difficulties involved in approaching the formless absolute reality by one-pointed concentration of attention; and also in worshipping the unmanifest nada by the technique of nadanusandhana. Therefore, the utility of music as a mass-entertainer of the people and as a means of salvation approachable by the common folks without effort is brought out by the author as the prominent characteristic feature of the manifest sound, i.e., *ahata nada*; it serves as a means of enjoyment in this world and of liberation from the limitations of wordly existence which is burdened with limitations of personality and the interplay of the opposites. In short, that is how the author introduces the subject proper and justifies his attempt at expounding the science of music.

Furthermore, the manner of his exposition, he assures his readers at the very outset, is to be such as to include the elucidation of such

- 8. Etc. refers to other important concepts such as jali, tana, kūtatāna, svara, mūrcchanā, grāma and so on.
- 9. The word geyam of the text literally means all that is worthy of being sung, but it comprehends all music by implication, as is obvious from the context.

freedom from the limitations of existence¹⁰, and also we shall investigate into its¹¹ being the origin of *sruti* etc. (167-168b).

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abstruse topics as śruti, joti, grāma, svara, etc., comprehending the very beginnings of the perception of *sruti* and so on. So, henceforth we are to concern ourselves with sangula-sustra, i.e., the science of musical arts.

- 10. The word existence has been used here in the sense of 'worldly life', i.e., everyday existence of an average human being which is limited by innumerable factors of environment and complicated by the interplay of the opposites, as compared to the life of full comprehension, of unlimited freedom and tranquillity.
- 11. 'Its' refers to manifest sound.

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^{7.} The word *utpatti* of the text generally means creation, it does not mean production. It does not necessarily involve personal will.

श्रथ ततीयं नादस्थानश्रुतिस्वरजातिकुल-दैवतर्षिच्छन्दोरसप्रकररणम्

क, नादुः

(i) नादुव्रह्म, तस्योपासना च चैतन्यं सर्वभूतानां विवृत्तं जगदात्मना । नाध्ब्रह्म तदानन्दमद्वितीयमुपास्महे । । १ । । नादोपासनया देवा ब्रह्मविष्णुमहेक्ष्वराः । भवन्त्युपासिता नूनं यस्मादेते तदात्मकाः । । २ । ।

> Section 3 Nāda, Śruti and Svara

A. Nāda

staten

(i) Nada-brahman and its worship (upasana) : (1-2)

We¹ (worship Wada-brahman, that incomparable² bliss which is immanent³ in all the creatures as intelligence and

The benedictory verse is addressed appropriately to Nada-brahman. The author, having described the genesis and the structure of human embodiment, which is the instrument of voice production, now turns to give a detailed treatment of voice, its constituent elements and other

- 1. The use of plural is significant. 'We' includes the author and the readers, and the construction is suggestive of the expression, 'let us worship' Nada-brahman.
- 2. The bliss which is one without the second, which is incomparable, absolute, i. e., not relative. 'K' takes 'adoit iyam' as directly qualifying Nada-brahman.
- 3. Gaitanyam sarvabhūtānām literally means the sentience in all the creatures. It has already been explained that Nada-brahman refers to the undifferentiated state of manifestation and as such it is all-pervading, without any limitations of individuation. Gaitanya is the essence of 'being' without implying any opposite. Sentience, for example, implies inert matter as non-sentience. It is in this light that Caitanya has been translated as intelligence. Caitanya is the life-essence inherent in all the creatures.

Section 3 : Náda, Sruti and ovara

is manifest⁴ in the phenomenon of this universe. (1)

Indeed, through the worship of $n\bar{a}da^5$ are worshipped gods (like) Brahmā, Viṣṇu and Śiva, since essentially they are one⁶ with it⁷. (2)

related matters; in the words of 'K', having dealt with the producer, the author now proposes to deal with the product.

We have already come across the concepts of nada (I.1.1 & I.2. 1-3 ante) and Brahman (I.2 4-5), and here we are confronted with the concept of Nada brahman. The commentators explain it grammatically as 'nada wa Brahman', i e, nada is itself Brahman, or it may also be interpreted as 'nada is Brahman-like'. If nada is taken as an adjective to Brahman, then it will qualify the word Brahman, in which sense 'K' interprets nada as an object of superimposition of Brahman which takes place due to the common character of both, viz, sentience. How is it that nada is taken to be sentient? 'K' would say, as he actually does, that nada is the object to which the sentience of Brahman is lent by superimposition. But, the grammatical approach is likely to be misleading; for, though nada and Brahman are two words representing two different concepts, the-word! 'Nada-brahman' is a compound word representing a single concept, viz., Brahman manifest as nada. Thus 'nada eva Brahman' may be understood in this light.

The commentators have offered a double interpretation, i. e., from the point of view of *Brahman* and nada. But obviously such an endeavour does not seem to be necessary.

- 4. As intelligence and bliss, Nada-brahman is immanent in all the beings. This immanence indicates the state of non-differentiation, which is manifest in the differentiated consciousness as the universe in the relationship of the seer and the seen, the subject and the object. Moreover, nada as the primordial sound having space or ether as its base is the subtlest of all the elements and precedes them in the order of manifestation. Thus Nada-brahman is the cause of the manifest universe. 'K' rightly points out that nida is the source of *stuti-s*, letters and words, etc., on which is based the conduct of worldly affairs. The world and the events taking place in it are perceived in the consciousness as name and form only; there is no wonder therefore, if it (nada) is credited, erroneously though in the ultimate analysis to be the very substratum of the manifest universe. But, such an interpretation becomes unnecessary if Nadabrahman is taken to be a single concept and is not split into nada and Brahman.
- 5. Nada implies Nada-brahman in this context.
- 6. The word 'tadhtmakale' of the text literally would mean that gods Brahma, Vișnu and Siva have nada as their essence.
- 7. It' implies nada.

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'K' brings out the purport as under : "nada, which is synonymous with para vak, being the energy of Brahman, is inseparably close to it and therefore propitiation of nada leads to the attainment of Brahman as one desirous of obtaining the lustre of a jewel attains the jewel along with it." The main burden of his comments is shared by two of his considerations, viz, his interpretation from the non-dualistic Vedantic point of view and his anxiety to show that devotion to nada can also lead to the spiritual emancipation of the soul, i.e., the pursuit of music not only has economic and aesthetic value but also spiritual value, viz, mokşa, the highest endeavour (puruşartha) of mankind; the argument being that scientific knowledge of *sruti* etc. leading to the understanding of the phenomenon of music, bestows the insight necessary for the attainment of the absolute.

Incidentally, nada may be differentiated from sound. The concept of sound is purely objective, but nada is not merely an object of the sense of hearing. The concept of nada refers to the perception in which the subject and the object is not differentiated. In other words, Nadabrahman implies the undifferentiated state of manifestation, which cannot be translated into the terms of the differentiated consciousness.

This point of view can also be approached in a different way. Names generally are considered to refer to objects of perception perceived by or perceivable by a subject – thus implying a subject object relationship. But the referend of names may not be an object, for according to some, what we perceive is the modifications in our consciousness; we have no access to the objects except through the thought-forms of the mind. Thus names ultimately refer to forms of consciousness and therefore every word implies in its meaning not only the form perceived by the senses but also the substance which finally is consciousness. Thus the word nada also implies consciousness, for otherwise it cannot be meaningful. Accordingly, the function of the word is to awaken a particular form in the consciousness and Nada-brahman signifies undifferentiated consciousness.

Worship is an act of devotion, and the incomparable bliss of nada is the ultimate source of all such inspiration. The gods Brahma, Vişuu and Siva in the puranic mythology represent the three aspects of the manifestation of Brahman into the phenomenon of the universe, viz., creation, preservation and destruction; the three being the part and parcel of a single movement, called Sakti or the energy or the creative power of Brahman.) This energy is also called nada or Sabda, i. e., the Word, or the para vak as 'K' puts it. In the first stage of manifestation the energy involved in Brahman evolves into undifferentiated consciousness which is called Nada-brahman in our text and accordingly the three gods named above are the three aspects in which the energy separates in the manifestation. Nada-brahman is also known as Sabda-brahman.

So, essentially the gods Brahma, Vişou and Siva, being the aspects of the same deity, are one with nada.

(ii) देहे ध्वनेराविर्मावः

आत्मा विवक्षमाणोऽयं मनः प्रेरयते, मनः । देहस्थं वह्निमाहन्ति स प्रेरयति माख्तम् ।।३॥ ०००००३प्रि ब्रह्मग्रन्थिस्थितः सोऽथ क्रमादूर्ध्वपथे चरन् । नाभिहत्कण्ठमूर्धास्येष्वाविर्भावयति ध्वनिम् ॥४॥

(ii) The process of the manifestation of sound in the human body. (3-4)

Desirous of speech the individuated being¹ /impels the mind, and the mind activates the battery of power² stationed in the body, which in its turn stimulates the vital force³. The vital force stationed around the root of the navel, rising upwards⁴ gradually manifests $in\bar{a}da^5$ / in the navel, the heart, the throat, the cerebrum and the cavity of the mouth as it passes through them. (3-4)

Now, the author proceeds to describe the process of voice production (i. e., the manifestation of ahata-nada). Desire for self-expression is the motive power that initiates the process into action. Why there is the desire for self-expression is a metaphysical question and one can probably look for its answer to the benedictory verse; but, the author is not, at the moment, concerned with that. As tar as the individual, which is the medium of voice production is concerned, desire for selfexpression is discerned to be the cause of speech; and therefore of singing i. e., music and even dance as it is included in the concept of Sangua.

It is notable that uptil now the word *nada* was signifying unmanifest sound; but, herefrom it obviously signifies manifest sound. It has already been said that *nada* is twofold, viz., unmanifest and manifest (cf S. R. I.2.1-3 ante). Futhermore, the word is now being defined in the context of music.

- 1. The word *atman* is difficult to translate into English due to the various shades of meaning attached to it in the different schools of Indian philosophy and cultural strata of society. In the present context the word *atman* is used as a dimunitive for *jtvatma*, i. e., individuated being or differentiated consciousness.
- 2. Vahni of the text literally means fire, but that is figurative in the present context.
- 3. Praya is translated as vital force.
- 4. The region below the navel pertains to anahata-nada, i. e., the unmanifest sound (cf 'S' on I 3-6).
- 5. Now, since the concept of nada has been clearly explained, it will be misleading to translate it as sound.

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(iii) पञ्चविधो नादः नादोऽतिसूक्ष्मः सूक्ष्मश्च पुष्टोऽपुष्टश्च क्रुत्रिमः । इति पञ्चाभिधा धत्ते पञ्चस्थानस्थितः क्रमात् ।।४।।

(iii) Fivefold nada (5)

Stationed in these five places, nāda takes on five different names as associated with them respectively, viz., extremely subtle¹, subtle³, loud⁸, not-so-loud⁴ and artificial⁵. (5)

'S' quotes Matanga who gives slightly a different set of nomenclature, viz., subtle, very subtle, manifest, unmanifest and artificial. It is significant that our author has reversed the order of the first two; and the reason is not far to seek. Matanga says that the nada called subtle resides in the cave (i.e., the navel), very subtle in the heart, manifest in the throat, unmanifest in the the cerebrum and artificial in the mouth. It is not clear why Matanga should locate the very-subtle nada in the heart; for the natural order of manifestation upto the throat is such that the lower the place the less manifest the nada must be. The progress should be from the subtlest to the gross. Accordingly our author seems to have represented the correct notion (cf. S. Raj. II. 1.1.17 which follows S R).

'S' would like us to follow the order indicated by Matanga, but he does not assign any reasons for that; neither he seems to perceive any controversy or a difference of opinion between the two authors. It may therefore be inferred that, he takes the difference of the order in question as caused by the poetic convenience and not worthy of any serious attention. That is why he innocently suggests Matanga's order to be the true one.

Incidentally, cerebrum is the highest point of *nada*-manifestation; and just as it (*nada*) is very subtle at the lowest point; so also it is difficult of perception at the highest point, being at the other extremity of the producing instrument; that is why it is characterised as 'not-so-loud' or unmanifest.

- 1. Atisūksma of the text.
- 2. Saksma of the text.
- 3. Pusta of the text is suggestive of strength, in other words that which has gained in volume.
- 4. Apusta of the text.
- 5. Kytrima of the text. It is so named because sound, after being produced through the vocal chords, is modified in the mouth by the tongue, the teeth, the lips, etc., and thereby loses its natural texture.

Section 3 : Nada, Sruti and Svara

(iv) नादशब्दस्य निरुक्तिः

नकारं प्राणनामानं दकारमनलं विदुः । जातः प्राणाग्निसंयोगात्तेन नादोऽभिधीयते ।।६।।

(iv) The derivation of nāda

It is understood¹ that the syllable² na (of nada) represents the vital force and da^8 represents fire; thus being produced⁴ by the interaction⁵ of the vital force and fire it is called nada. (6)

This verse gives the derivation of the world nadd. In Sanskrit two types of derivations are offered, viz. (i) grammatical called *vyutpatti* and (ii) what may be called in English 'semantic', i. e., *nirukti*; and here what we are offered is a semantic derivation, which is partly related to the tantric system. 'K' points out that according to the science of *tantra*, every seed-syllable (bljaksara) of a mantra has a presiding deity, and in that context the letters n and d refer to Prana and Agni, i. e, the vital force and fire. The word nada is derived grammatically by 'S' as that which is produced by the consonants n and d put together.

Thus, the word nada is significant, both grammatically and semantically and is indicative of signifying the consequence of the interaction of vital force and fire, which is the 'consciousness of sound'.

Matanga derives the word nada from the root (nad) to sound in addition to the semantic derivation given by our author who has preferred to give the latter alone as it explains the process of voice production.

- 2. Literally, "the letter n and the letter d."
- 3. The idea of representation is not explicit in the text but is definitely implied in the context.
- 4. Produced as a consequence of the union of the vital-force and fire.
- 5. Literally it would read as 'union', but the union is an action. 8

^{1.} If literally translated, it would read, "(they) knew", 'they' being implied in the number and the person of the verbal form used. They refer, as perceived by 'K', to tantric experts.

(v) गीतव्यवहारे त्रिधा नादः व्यवहारे त्वसौ त्रेधा हृदि मन्द्रोऽभिषीयते । कण्ठे मध्यो मूर्ष्ट्नि तारो द्विगुणश्चोत्तरोत्तरः ।।७।।

(v) The threefold nada in music.

However, in actual practice¹ it² is threefold, called mandra⁸ in the heart, madhya⁴ in the throat, and tāra⁵ in the head and is successively double (in pitch). (7)

The author has already spoken of a fivefold classification of nada based on the location spots in the body in verse 3 (ante). Here, he opens the verse with 'however', indicating that the threefold classification of nada into the 'low', the 'medium' and the 'high' is presented notwithstanding the earlier classification, as this one is devised from a purely practical point of view. As the commentators have pointed out, the practical point of view relates to the practice of singing etc., i. e., to musical performance; and therefore, the function of this classification is to be clearly distinguished from the carlier one, which is more or less of a theoretical value.

The same nada, when produced from the heart is called mandra, when produced from the throat is called madhya and when produced through the head, i.e., the cerebrum, it is known as tara, and each successive nada is double (in pitch) than the preceding one, i.e., the three aspects stand in the ratio of 1:2:4. 'K' gives another significant interpretation for this idea. According to him, if the effort involved in the articulation of $sa \cdot lja$ and the other notes of the lower register (mandra) is taken as the standard unit measure, then the effort involved in producing sadja and the other notes of the middle register is twice as much and the effort required for producing the same notes of the high register (tara) is double than that (i.e., that of the middle). That is how madhya is double the mandra and tara is double the madhya.

- 3. Mandra literally means 'low'.
- 4. Madhya literally means 'medium' in this context.
- 5. Tara literally means 'high'.

Section 3 : Nada, Sruti and Svara

ख. श्रुतिः

(i) श्रुतिः, तत्सङ्ख्या च तस्य द्वाविंशतिर्भेदाः श्रवणाच्छुतयो मताः । हृद्यूर्ध्वनाडीसंलग्ना नाडघो द्वाविंशतिर्मताः ।। ५।। तिरश्च्यस्तासु तावत्यः श्रुतयो मारुताहतेः । उच्चोच्चतरतायुक्ताः प्रभवन्त्युत्तरोत्तरम् ॥९॥

एवं कण्ठे तथा शीर्षे श्रुतिर्दाविंशतिर्मता ।

B. Śruti

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(i) Sruti and its number (8-10b)

 $Nada^1$ is differentiated into twentytwo grades which, _____ because of their audibility², are known as *śruti-s*⁸. (8ab)

It is believed⁴ that, closely associated with the two upward $nadi-s^{s}$ in the heart there are twenty two nadi-s placed

By this time it would have been clear that the term nada is increasingly being used in a specific sense. Whereas nada signifies in the general sense, the consciousness of sound, here its meaning has been restricted to musical sound. In this sense, it has been said in the previous verse, that nada is of three types, with reference to the place of production in the body or the pitch, so to say. Now, such a nada is further distinguished into twentytwo varieties, produced by twentytwo upward nadi-s each of the heart, the throat and the cerebrum.

What is important to note is that twentytwo variations, grades or intervals have been recognised in the scale.) The twentytwo nddt.s,

1. In this context the author is dealing with the manifest (ahata) nada, and therefore nada means musical sound.

2. The word 'sravanat' of the text literally means 'on account of hearing'.

- 3. <u>Sruti-s literally could be rendered as 'audibles'</u>.
- 4. The word 'matah' of the text has been literally translated here as it scens to have been so used. But sometimes it is not necessarily so used, it is otherwise used in the sense of "it is known" or "it is considered."
- 5. 'K' interprets the word <u>nadi</u> of the text as <u>indicative</u> of <u>dual</u> number and accordingly names them as ide and <u>pingala</u>, but 'S' seems to take it as singular and accordingly identifies it with susumna.

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^{1.} Vyavahāra is conduct, i. e., actual practice; in this context 'gila', i. e., the tonal aspect of music.

^{2. &#}x27;It' refers to nada.

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obliquely⁶, and twentytwo⁷ *sruti-s* successively higher and higher in pitch, are produced by the force of wind acting upon them. (8c-9)

Similarly, twentytwo *stuti-s* are discerned in the throat as well as in the cerebrum⁹. (10ab)

however, have not as yet been identified in terms of modern physiology or anatomy. Nevertheless, the concept of relating twentytwo *sruti-s* to twentytwo nadi-s is not confined to Śarngadeva but is shared by at least one more author known to us, viz., Śaradātanaya who is a contemporary of the author. He not only relates twentytwo *sruti-s* with twentytwo nadi-s branching off from the central nadi, viz., *susum*nā in the region of the heart but he further relates them to the seven places of pronouncing letters of alphabet, viz., the throat, palate, lips, cerebrum and teeth either independently or from more than one place put together. Thus he goes on to relate the seven tones to these places of pronunciation assigning to them the number of nadi-s equal to the number of their *sruti-s*. The whole theory is illustrated in the following chart:

svara-s and varna-sthana-s

	S. No	ciation	No, of nādī-s ttached	Name of the note produced	No. of šruti-s	Remarks
•	1	\int_{1}^{2}	3	4	5	6
Ľ		Throat	4	Şadja	4	Compare Sangitamaka.
,	2	Root of the palate	3	Rsabha	3	randa (1.11-12) for the
	3	Lips	2	Gandhara	2	relationship of col. 2 and 4
	4	The centre of cerebrum	4	Madhyama	<u>4</u> A	Being produced from
ĺ	5	Teeth, throat, cer brum, palate & lip	e- 4 s	Pañcama 🗧	2	five places it is called pañcama
	6	Throat & palate	3	Dhaivata	3	
	7	Throat & lips	2	Nişāda	2	Total no of sruti-s 22

- 6. 'K. R.' translates it as 'crosswise'. Literally it also means horizontal.
- 7. The number twentytwo is not repeated here in the text, but the expression 'of the same number' is used.
- 8 The throat and the cerebrum are the other two places from which *nada* finds voice; along with the heart these three refer to the three registers.

In other words, he relates not only the *sruti-s* but also the *svara-s* to the nadt-s. And alternatively, he also presents another theory according to which the seven *svara-s* (notes) are related to the seven supportive tissues (dhatu-s) in the body, viz., serum, blood, flesh, fat, bone, marrow and semen. The theory seems to rest on the contention that the internal heat (a_sma) of the tissues in conjunction with *prana* gives rise to the seven tones through different *dhamanI-s* (arteries) that are associated to the particular tissues in the same number as that of the *sruti-s* of the particular tones which they produce. Thus the number of *dhamanI-s* associated with the production of the seven notes through the seven supportive tissues is also twentytwo.

In this way both the theories seek to present physiological evidence to support the view that the total number of *sruti-s* is 22 only (cf. *Bhavaprakasanam*, pp. 184-188). The following detail of the topics dealt with gives an idea of the subject matter :

"The creation of nada and the letters of alphabet—the places of pronouncing the letters—22 nadt-s as related to these places—the seriatim production of nada, *sruti* and *svara*—the rise of seven notes from seven places—the *svara-s* and the supporting tissues 22 dhamant-s etc." The following chart shows the relation of *svara-s* and the supportive tissues according to the above theory.

Svara-s as related to dhatu-s (supportive tissues)

S. No.	Dhatu	Svara	No. of supporting dhaman1-s	Location of the substratum
aller	Semen	Şadje	4	Brahma-granthi (centre of the body)
<u>0</u> _02	Marrow	<u> R</u> şabh a	3	Navel
3	Bone	Gandhāra	2	Heart
4	Fat	Madhyama	4	Throat
5	Flesh	Pañcama	4	Root of palate
6	Blood	Dhaivata	3	Cerebrum
7	Skin	Nişāda	2	Sahasrā ra

(Chart-2)

It may be kept in mind that these tones are related to the heat (resident fire) of the above tissues and not the tissues themselves. The related *dhamani-s* are supposed to feed the tissues concerned and the tones produced are the modifications of *nada* that is produced primarily in the susumpa.

Thus it will be seen that the relation of 22 *sruti-s* and the seven tones with the nald-s is not without a scientific basis. However, the

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Treatment of Svara

fundamental basis of this theory is to be found in the intimate knowledge of the kundalini-yoga and tantra. But it is clear that the ahata-nada (the manifest sound) is conceived here to be a modification of the nada residing in the central-most nadi, viz., susumna and is manifested through the nadi-s that branch off from it.

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This perspective affords us a greater understanding of the relevance of the entire spectrum of subjects dealt with in the Section entitled—the Human Embodiment.

The word sruti is derived from the root 'sru', to hear; thus sruti is that which is 'heard'. In other words, Sruti is the name given to that range of sound which is audible Since twentytwo such sounds are perceived in each of the three registers, it is also implied that an audible sound in order to be called a sruti should also be capable of individual perception and recognition, and therefore of being reproduced. 'K' opines that audibility is common to tones as well as stuti-s; so, that is not sufficient to characterise it properly. He, therefore, suggests that when the sound breaks on the first stroke, it is free from resonance in the first instant. Thus according to 'K' sruli is that audible sound which is free from resonance. The point that he seems to be making is that stuti is essentially devoid of tonal colour. This view is obviously based on the distinction drawn between sruli and svara by the author (vide, 24c-25b) while defining the latter. However, this characteristic of sruti that categorically distinguishes it from svara was first pointed out by Abhinavagupta who defines svara as, "the sound that is (produced) by the influence of the sound arising as a result of striking (a vibrating string) at a sruti-sthana (the-postion of a sruti) and is (thus essentially resonating, sweet and creamy" (Vayam tu srutisthanabhighataprabhavasabdabrabhavito anurananatm snigdhaa madhurah sabda eva svara, ili vaksyamah. (cf. Abh. Bh, on N. S., G. O. S. IV, p. 11). do lo

In this definition it be observed that when *sruti* is referred to as having a sthana (a particular position in the scale) it implies a certain pitch relation and the word no longer is used in its literal sense of audible sound. This sound which is produced by striking a vibrating string at a given point is not resonating in the first instand, but is capable of creating resonance in that string. That the word *sruti* had a reference to pitch relation from very early times, is indicated by an aphorism of Papini (500 B. C.), "*Ekasruti dūrāt sambuddhau*" (1.2.33), i. e., a call from a distance (in vocative) is (perceived as) *ekasruti*. The word *ekasruti* is defined by Patañjali as the non-distinction of the tone-triad (*traisvārya*, i. e., udātta, anudātta and scarita) in perception. Thus, Abhinavagupta made the distinction between the general and the particular meaning of the *sruti* both at the conceptual and the perceptual levels. [Conceptually] the *stuti-s* are twentytwo as twentytwo definite positions in the scale of seven notes, but perceptually the *struti s* are non-resonant primary manifestations of musical sound, antecedent to the production of tones. It is this sort of thinking that is abridged by Sarngadeva in his definition of *svara* referred to above, which Kallinātha has expounded.

In this context it is worthwhile to point out that in the history of the concept of *sruti*, we come across discussions regarding the number of *sruti-s* and one of the views is that the number of *sruti-s* is infinite, and in that case audibility seems to be the only characteristic of *sruti*. But if the number is limited then other characteristics are relevant.

'S' quotes Matanga who has discussed this topic at some length. He derives the word *sruti*, grammatically from the root *stru*' to hear, and speaks of *sruti* as the audible sound, and therefore essentially one.

He (Matanga) further quotes Višvāvasu who declares the same one śruti to be twofold, i. e, the one pertaining to the normal tones of the scale and the other pertaining to the intervening tones (i. e., antara-gandhara and kākalt-nişāda, to be explained later). However, this distinction is not of any value, what is notable is that he also defines śruti as the audible sound. He (Matanga) also mentions the view according to which śruti is considered to be (threefold/ and he describes two such schools, viz., those who base their argument on the three places of voice, i e., the three registers] and those who base their view on the threefold perceptual insensitivity (indrivanigunya). Such insensitivity is explained in these terms : (a) that which is presented as the natural response of the organism to the situation ; (b) that which is caused by the emotional imbalance of over-activity or dullness ; and (c) that which is consequent upon taking improper food and drink.

Then he also points out the view according to which *fruti* is fourfold, and this view is based on the fourfold condition of the body, viz., the respective predominance of wind, bile and phlegm and the combined derangement of the three (cf. S. R. I. 2.71c ante). However, as 'K' points out, these varieties are spoken of with reference to the over-all quality of voice which includes timbre, volume and pitch-range. This classification is primarily applicable to the production of voice in the human organism.

The only classification based on the pitch of the notes, divides them into three categories (i) having 4 *stuti*-interval, (ii) with 3 *stuti*interval and (iii) with 2 *stuti*-interval. As we shall have the occasion to see later, there are three notes in the first category comprising 12 *stuti-s*, two in the second comprising 6 *stuti-s* and two in the third comprising 4 *stuti-s*, making 22 in all in the scale of seven notes known

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(ii) चतुःसारणा व्यक्तये कुर्महे तासां वोणाद्वन्द्वे निवर्शनम् ॥१०॥ द्वे वोष्वे सदृशौ कार्ये यथा नादः समो भवेत् । तयोर्द्वाविंशतिस्तन्त्र्यः प्रत्येकं, तासु चाविमा ॥११॥

(ii) The fourfold string movement (catuh-sāraņā): 10c-22

For their clear¹ exposition we are to demonstrate them on a pair of viņā-s. Two viņā-s with twentytwo strings each, may be produced similar⁹ in every respect to sound⁸ alike.

as sadja-grāma. Thus, there are 9 *stuti-s* in this view which is attributed to the flutists who are required to provide appropriate knobs for producing all the notes by partial and full openings. Matanga also quotes Bharata to support the threefold classification of notes on which is based the ninefold *stuti*. The concept of 9 *stuti-s* is related to the triad of notes and not the heptad. Then he puts forward some other views along with Kohala who says, "some maintain twentytwo as the number of *stuti-s*, while others, (in view of three registers) consider it to be sixtysix, but others think it to be infinite."

We have already dealt with the view of the infinity of *stuti-s* as untenable. The number sixtysix is admitted on the ground that there is a difference in the pitch of the notes of the three registers; and therefore their *stuti-s* should also be considered to be different. However, as 'S' argues, this is not a fundamental or categorical difference as the notes of the three registers as well as their *stuti-s* are recognised to be the same. Thus the view holding twentytwo as the number of *stuti-s* hold good and Sarngadeva seems to have settled this question once for all, since after him this number is taken for granted.

To sum up, "*stuti* is that audible sound which at the conceptual level is capable of being individually perceived, recognised and reproduced and at the perceptual level is free from resonance; such *stuti-s* are -twentytwo in number, and are the same in all the three registers." This is the twofold technical meaning of the word *stuti* apart from which, the word simply means—"that which is heard", i.e., "the audible". The Sanskrit word *stuti* is rendered into English by some as "microtone".

- 1. The minute *stuti* intervals are not easily discernible without being systematically demonstrated; and since it is difficult to do so vocally, ping-s are pressed into service.
- 2. Similar in every detail of manufacture, and the test of their similarity lies in the resulting identity of the sound produced by them.

कार्या मन्द्रतमध्वाना द्वितीयोच्चध्वनिर्मनाक। स्यान्निरन्तरता श्रुत्योर्मध्ये ध्वन्यन्तराश्रतेः ॥१२॥ अधराधरतीव्रास्तास्तज्जो नादः श्रतिर्मतः । वीणाद्वये स्वराः स्थाप्यास्तत्र षड्जश्चतुःश्रुतिः॥१३॥ स्थाप्यस्तन्त्र्यां तूरीयायामुषभस्त्रिश्च तिस्ततः । पञ्चमीतस्तृतीयायां, गान्धारो द्विश्रुतिस्ततः ॥१४॥ अष्टमीतो द्वितीयायां, मध्यमोऽथ चतुःश्रतिः । दशमीतश्चतुर्थ्यां स्यात्पञ्चमोऽथ चतुःश्रुतिः ।।१४।। चतुर्दशीतस्तूर्यायां, धैवतस्त्रिश्र तिस्ततः । अष्टादश्यस्तृतीयायां, निषादो द्विश्रुतिस्ततः ॥१६॥ एकविंश्या द्वितीयायां, वीणेकाऽत्र ध्र वा भवेत । चलवीणा द्वितीया तु तस्यां तन्त्रीस्तु सारथेत् ।।१७३। स्वोपान्त्यतन्त्रीमानेयास्तस्यां सप्त स्वरा बुधः । ध्रुववीणास्वरेभ्योऽस्यां चलायां ते स्वरास्तदाः ।।१८।। एकश्र त्यपकृष्टाः स्यूरेवमन्याऽपि सारणा । चलवोणागतौ श्रु तिद्वयलयादस्यां 👘 गनी ।। १९॥ ध्र ववीणोपगतयो रिधयोर्विशतः क्रमात । तृतीयस्यां सारणायां विशतः सपयो रिधौ ॥२०॥ निगमेषु चतुव्यां तु विशन्ति समपाः क्रमात् । श्र_तिद्वाविंशतावेवं सारणानां चतष्टयात ॥२१।। ध्रवाश्र तिषु लीनायामियत्ता ज्ञायते स्फुटम । अतः परं तु रक्तिघ्नं न कार्यमपकर्षणम् ॥२२॥

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The first⁴ string may be so fixed as to produce the lowest⁵ possible sound, and the second one in order to sound a little

- 4. 'K' thinks that the string fixed so as to be the nearest in the the approach of the player is the first string.
- 5. Here we are concerned with musical sound and not merely with sound Therefore, the lowest possible sound implies that the string should be stretched not only to make an audible sound but to make the sound which is the lowest and also capable of resounding. As '8' puts it, the sound thus produced should be delightful

bit⁶ higher than that, maintaining continuity in between the two *sruti-s* and disallowing any intervening audible sound. Thus, the strings fixed one below the other are successively of higher and higher pitch, and the sound produced by them is known as '*sruti*'⁷ (10c-13b)

To establish the notes on the two vina-s let sadja which is of four śruti – measure, be fixed on the fourth string; rsabha of three śruti-measure on the third string as counted from the fifth⁹; gandhāra of two śruti-measure on the second string from the eighth⁴; madhyama of four śruti-measure on the fourth string from the tenth¹⁰; pañcama also of four śrutimeasure on the fourth string from the fourteenth¹¹; dhaivata of three śruti-measure on the third string from the eighteenth¹³ and nisāda of two śruti-measure on the second string from the twentyfirst.²⁸ (13c-17a)

Let one of these two vina-s be kept invariable¹⁴ and the other one as variable¹⁵; and in the latter, one may move¹⁶ the strings. (17b-d)

In the first movement, the seven notes of the variable $vi\eta a^{17}$ have to be brought over¹⁸ by the experts¹⁹ to the

- 6. The expression 'a little bit' is explained forthwith in the text that follows immediately, i. e. to the extent that no other sound intervenes and the continuity in hearing is maintained.
- 7. The twentytwo strings fixed in this manner, when plucked will sound in twentytwo *śruti-s*. This number is further to be verified and proved beyond doubt. But in the meanwhile, every sound produced by these is called *śruti*.
- 8. The seventh string if counted from the first.

14. Literally, dhruva means immutable, constant.

15. Literally, cola implies adjustability in this context.

- 16. The precise meaning of this term is elucidated in the next verse.
- 17. This expression is implicit in '*lasyam*' of the text which is related to 17d above.
- 18. This is more or less a literal translation of *dnepdh* of the text, which has been preferred in order to preserve the underlying feeling that an experiment is being conducted; for otherwise the purport is that the notes have to be shifted from their original strings.

immediately preceding²⁰ strings; and thereby its notes are lowered by one *sruti* each with reference to those of the invariable vina. The remaining²¹ movements may as well be similarly carried out. (18-19b)

In the second²² movement, due to the fusion²⁸ of two sruti-s the ga and ni of the variable vinā have been absorbed²⁴ by ri and dha respectively of the invariable vinā. (Similarly) in the third movement ri and dha have merged into sa and pa respectively; while in the fourth movement sa, ma and pa have fused with ni, ga and ma respectively.²⁵ (19c-21b)

The concept of *sruti* and the number of *sruti-s*, i.e., twentytwo, is not based merely on subjective experience of the nadt-, but as clearly defined, the different *sruti-s* can be produced at will recognised as individual entities and so demonstrated. Thus, the concept of *sruti* is objective and scientific in so far as it is demonstrable.

The procedure for this demonstration is quite simple and is said to have been attempted successfully with tangible results. This topic is dealt with in the text extending from verse no. 10c to 22 and the whole process is technically called 'catuh-sarana', which will be explained later.

However, the technique of demonstration is open to some serious objections; for example, Pt. Omkarnath Thakur points out the following difficulties in the process (cf. Pranavabharati, pp. 64, 65 and Sangttanjalt pt. V, p. 91):

- 19. The experiment has to be conducted very carefully and under expert guidance.
- 20. The original strings are the 4th, 7th, 9th, 17th, 20th and 22nd; and now, the notes have to be placed respectively on the 3rd, 6th, 8th, 12th, 16th and the 21st strings.
- 21. That is, the second, third and the fourth movements may also be carried out by lowering the pitch of the notes by one *snuti* each with reference to their standard pitch in the invariable *vina*, and the lowering is effected by moving to the proximate strings.
- 22. Literally, in 'this' with reference to the previous line.
- 23. Laya is indicative of the loss of distinction of individuality.
- 24. Visatab lit enter, is the most appropriate expression whereby the note that merges is absorbed by the one with which it merges.
- 25. It may be borne in mind that this fusion is with reference to the invariable oind. Sa, ri, ga, ma, pa, dha, and ni, it may be noted, are the diminutive forms of the seven notes called sadja, 1 sabha, gandhara, madhyama, pañcama, dhaisata and misāda.

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Section 3 : Nada, and and stan

Treatment of Svara

Thus, the exact number²⁰ of *śruti-s* is clearly evidenced by their fusion with the twentytwo śruti-s of the invariable viga brought about by the process of fourfold string movement. The retrograde movement²⁷ may not be carried beyond this²⁸, as that would mar the beauty.²⁰ (21c-22).

- (i) Though it is possible to fix 22 strings on vina, yet it is difficult to do so; and it is even more difficult to establish the different notes on them by tonal consonance.
- It has been suggested that the first string should be fixed so (ii) as to produce the lowest possible sound. This is, at best, a vague direction.
- Taking it for granted that the lowest sound as suggested (iii) refers to the pitch below which sound does not produce any resonance and thus ceases to be musical, the problem yet is how to fix the second string in order to sound a little bit higher than the lowest and so on. That, he says, is to be determined by ensuring that continuity in-between the two is maintained and any intervening sound is eliminated or disallowed to intrude. This leads to the question whether it is practicable not to listen to the intervening pitch-points or musical microtones. Obviously such subtle musical sounds are discernible by trained ears. Therefore, the procedure suggested by the author does not seem to be satisfactory.

Moreover, the statement that, "the sound produced by them (the 22 strings fixed by the above procedure) is known as *sruti*", is technically unsound, for *sruti-s* that are also called microtones, are very narrow pitch-relations, perceived by trained ears with great difficulty; they cannot thus be determined so easily by fixing the strings a little bit higher successively since it does not involve a definitely measured pitch. (10c-13b)

While Pt. Omkarnath Thakur suggests his own procedure for demonstrating 22 Sruti-s (cf. Pranavabhārati, pp. 65-66), Dr. K. C. D. Brihaspati suggests quite a different interpretation of the text which enables him to steer chear of some of the difficulties mentioned above

- 26. The iyatta of the text has the sense of numerical extent.
- 27. Apakarsa is the lowering of the notes in pitch.
- 28. This refers to the fourth movement.
- 29. Rakti of the text literally means delightfulness which is beauty.

(cf. Sanglacintamant, pp. 191, 192) the purport of which is presented as under :

- (i) The procedure of the fourfold string movement described above is a preliminary exercise to fix the strings approximately in order to establish the seven notes later on the basis of the consonance of notes without much difficulty.
- (ii) Sarngadeva has adapted this procedure from Matanga for the above purpose. The above contention is demonstrated to be true by the second line of the verse 13 (Vinadvaye svarah sthapyastatra sadjascatuhsrutih). He clearly states that the notes have (yet) to be established on the two strings.
- (iii) He has used the word sruti in its primary meaning of an audible sound, and not in the technical sense, for otherwise he ought to have named the *śruti-s* there and then thus rendering the fourfold string movement and the process of establishing the notes unnecessary.

Moreover he elsewhere points out that in kceping with the spirit of the age, Sarngadeva has purposefully clothed his expression in the blanket of ambiguity. This is how the subject matter has been dealt with by the modern scholars.

The sruti-s when specifically grouped, manifest the seven hotes of the scale. Incidentally, the Indian theory of music does not take the octave into account as a general rule. We may have the occasion to reflect upon the thinking that has been done regarding the relationship obtained between svara (i. e., a note) and sruti. It may also be worthwhile to point out that the concept of svara is not at once identical with the concept of note, though generally the term is rendered into English as 'note' or 'tone' according to the context. The essential difference that can at once be pointed out between 'svara' and 'note' is that. whereas the pitch of the notes is fixed, that of svara-s is not absolutely fixed, though it remains invariably the same in relation to the other of the scale. An Indian performer is free to fixe his fundamental note according to his own convenience. This goes to make all the difference. Another important difference is that sours can roughly be said to signify (MS 'duration in pitch' rather than a point. This factor will be further clarified as we proceed with the text. However in English the words note and 'tone' are used with some inexplicable discrimination in this translation.

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For the time being, suffice it to say that, a number of fruti-s in successive combination go to bring a tone into being. Now, the author concerns himself with establishing the seven notes of the scale on the

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strings fixed on the two vin a-s. Sadja is to be established on the fourth fruti as counted from the last fruti of the preceding note, i. e, nigada of the lower scale; and since the first string here is taken as the lowest possible sound, sadja is fixed on the fourth string. Similarly r_{sabha} is established on the third fruti taking the last fruti of the previous note as the zero point. Thus r_{sabha} is fixed on the third string as counted from the fifth (i. e., the seventh string). Similarly, other tones are also established on their respective strings. (13c-17a)

Having once established the leven notes in the two vina-s at the initi intervals of 4, 4+3, 7+2, 9+4, 13+4, 17+3 and 20+2, i. e., 4, 7, 9, 13, 17, 20 and 22, now the author proceeds to demonstrate the fact of these minutely preceptible intervals that go to manifest the seven standard notes, being twentytwo in number. One of the vina-s is kept invriable to serve as the unmodified standard for evaluating the modifications brought about by the string-movements. Four of such string movements go into action in this process which is technically known as 'catub-sarana', i. e., the fourfold string-movement. This has been described in the text extending from verses 17 to 22.

The otga in which the fourfold string-movement takes place is cala viga (lit movable) in the text, while the one which serves as the invariable standard is called acala-otga (lit immovable). Both of them, it may be pointed out, have twenty two strings and are identical in every respect. Such viga-s, however, are used here for experimental purposes only, and are not otherwise used for any performance. (17b-d

The fourfold string-movement has already been referred to. In this verse the author elucidates the significance of the string-movement. Although the whole picture will only be clear after going through the whole process, i. e., up to the 22nd verse, it is worthwhile to understand what is meant by 'movement'.

The seven notes of the scale have been established on definite strings on the two vina-s; now, the notes of the variable vina, in the first movement, are shifted to the strings immediately preceding their respective original strings; i. e., in other words, the movement implies the lowering of the notes in pitch by one *sruti*-interval. Similarly in the second movement the notes would be lowered by two *sruti*-intervals, in the third by three *sruti*-intervals and in the fourth by four *sruti*-intervals. Consequences of this fourfold string-movements are described in the next few verses of the text.

In the first movement, however, no note-interval is proved; for, at least two *fruti-s* are required to constitute the shortest of the noteintervals; but, nevertheless, the lowering of the pitch of the notes is noticeable, directly as well as by reference to their standard pitch preserved by the invariable $\sigma_{1,\alpha}$. Thus, this arrangement of two $\sigma_{1,\alpha}$ provides for a negative as well as a positive proof with regards to the number of *fruti-s*, which is twentytwo. (18-19b)

Each string-movement implies lowering of notes (i. e., all the seven notes) by one *sruti* progressively, i. e., by one *sruti* in the first movement, two *sruti-s* in the second movement, three *sruti-s* in the third movement and four *sruti-s* in the fourth movement. But, since the fundamental note has no fixed pitch in this system, the lowering of the notes, allround as it is, does not affect the individuality of the notes as such; for, the *sruti-intervals* between the various notes remain the same. However, the impact of the string-movement in the variable *sina* is to be studied with reference to the standard pitch of the notes set up by the invariable *vina*. This is illustrated graphically by the following chart (adopted with modifications from *Sangtla-Cintamani* of Dr. K. C. D. Brihaspati and Mrs. Sumitra Kumari).

The fourfold string-movement

Serial No. of strings 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

T	Notes of • acala-vina	sa	ri g	a	ma	F	a	dha	ni
A	151 step in † cala-viņa	sa I	ri ga	m	1	pa	dh	a :	ni
	2nd step in cala-vina	sa ri	ga	ma		pa	dha	ai	
ĺ,	3rd step in cala-viņa s	a rig	a	ma	p	a dh	a ni	i	
	4th step in cala-viņā	ri ga	ma	L	ра	dha	ni		
				(Cha	rt 3)				
		• Invaria †Variabl		a /					

The effect of the fourfold string-movement on the position of notes with reference to the invariable *vina* and the extent to which that goes to demonstrate the number of *iruti-s* is represented briefly in the following chart:

No. of note-strings	4 7 9	13	17 20	- 1	No. of <i>sruti-s</i> demon- strated	Remarks
The original position of notes on the scale lst movement		ma	pa dha	ni		No effect on
2nd movement	ga		ni		4	the notes ga and ni merge with ri and dha
Srd movement	ri	đ	lba		+6	ri and dha merge with sa and pa
\$th movement	ma	pa	5	a	+12	ma, pa and sa merge with ga, ma and ni

(Chart 4)

Thus, it is contended that, since by this method the number of *sruti-s* that could be fixed with and that constitute the seven notes of the scale is found to be twentytwo only, it is evident that *sruti-s* are twentytwo The purpose of this demonstration is to verify and thereby to confirm the number of *sruti-s*, i. e., twentytwo. The validity of this process offering rough evidence to prove the number of the *sruti-s* lies in the fact that in the second movement the notes ga and ni are fused with, i. e, sound similar to, the notes ri and dha, thereby proving that the note-intervals ri-ga and dha-ni are of two *sruti-s* each. Similarly, the *sruti-s* of other notes are also verified as shown in the above chart, establishing in consequence the number of *sruti-s* as twentytwo.

The merger of ga and ni with ri and dha in the second movement and of ri and dha with sa and pa in the third is quite intelligible. But in the fourth movement sa, ma and pa fuse with ni, ga and ma: the merger of ma and pa with ga and ma is also understandable; but the question is how does sa merge with ni, since the string for sa was tuned to produce the lowest possible tone that could be audible? The question as posed by 'K' is quite natural and if the formula for the stringmovement is strictly followed, the fourth movement cannot be practically demonstrated on a <u>sinal of twentytwo strings</u>; firstly, because there is no other string preceding the first one on which sa is placed in the third movement; and secondly, there is no lower tone possible. 'K' meets this objection by suggesting that if the lower octave (used for the saptaka) here is repeated, the string for *ni* can be conceived as the one preceding the string for *sa*; or alternatively, the *sa* can be conceived to have merged with the *ni* of a still lower octave. However, the difficulty is not with the technique of the demonstration and only points out the limitation of the equipment.

Kumbha of the 15th century who has elaborated upon Sārāgadeva informs us about the functions of the fourfold string-movement as under:

"The delimitation of the number of *stuti-s*, gradation of pitch with reference to tones and the comprehension of *kakalt* etc. (constitute) the functions of the string-movements." (S. Raj. II. 1.1.115). (19c-21b)

The net result of the fourfold string-movement is that the number of sruti-s has been verified and demonstrated to be twentytwo only. 'K' raises a hypothetical question which is adequately answered by Sarngadeva in verse 22. One can well say, "If 22 sruti-s could be obtained by four string-movements, why not carry out the fifth movement and fix the number of *stuti-s* at twentynine ?" It is as if in anticipation of such a question that, according to 'K', the author found it necessary to forbid any further movement; for that would defile the aesthetic value of notes. Dwelling on this theme, 'K' further explains that a fifth string-movement cannot possibly be conceived, for the note-intervals are finite and are constituted by different numbers of Sruti-s such as 2, 3 and 4, making them resonant, delightful and pleasing tones. Thus, the three categories of notes with 2, 3 and 4 sruti-s each have been fused in three different movements leaving no scope for any further lowering of pitch. 'S' too points out that a svara (note) is defined to be pleasing by itself and therefore, if another movement is carried out, that would disturb the constitution of individual notes which would consequently destroy their essential quality of being pleasing by themselves. Incidentally, it is the scale of sadja-grama which is the basis of calculations here; and in this scale the biggest sruti-interval is that of 4 sruti-s. (21c-22)

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ग. स्वरः

(i) सप्त स्वराः

श्रुतिम्पः स्युः स्वराः षङ्जर्षभगान्धारमध्यमाः । पश्चमो धैवतश्चाथ निषाद इति सप्त ते ॥२३॥ तेषां संज्ञाः सरिगमपधनीत्यपरा मताः ।

C. Svara and its different aspects

(i) Seven svara-s (tones) : 23-24b

From out of the *śruti-s¹* arise the *svara-s²*; these are **seven**, viz., sadja, ₁sabha, gāndhāra, madhyama, pañcama, dhaivata,

This verse is quite important as it reflects the views of Sangadeva regarding the relationship of *fruti* and *svara*; and that i, why the English version has been rendered as close to the original text as possible, even though it has necessitated an unusual construction.

'Sruti-s give rise to the svara-s', is a cryptic statement which affords enough scope for different interpretations. But before discussing these, it will be better to be clear about its obvious implications. As already pointed out, the svara-s arise out of *sruti-s* in the groups of two, three and four, but essentially in groups. As far as the <u>suddha svara-s</u>, i. e., the standard notes of the safja-grama (to be explained later) are concerned, twentytwo *sruti-s* in the groups of four, three and two go to constitute teven notes called sa, ri, ga, ma, pa, dha, and ni.

> Now, how do *stuti-s* give rise to *svara-s* and actually what relationship obtains between them? 'K' discusses this question thoroughly and presents the following possible interpretations:

(i) Since svara as well as *sruti* have the sense of hearing as the means of perception, in the absence of any perceptual distinction, there is no categorical difference between the two; which, therefore, stand in the relationship of the general and the particular (i. e, in other words, they are essentially identical).

and nişāda. Their another accepted nomenclature³ is 'sa-riga-ma-pa-dha-ni'. (23-24b)

- (ii) Like the reflection of the face in the mirror, the spara-s are projected by the *stuti-s*, and present the relationship of appearance and Reality.
- (iii) Just as a ball of mud is said to be the material cause of an earthen pot made out of it, so also *stuti-s* form the material out of which svara-s are shaped. Thus, in this view, *stuti* and *svara* stand in the relationship of a material cause and effect.
- (iv) As milk gets transformed into curd, so also the *sruti-s* are. transformed into *svara-s*.
- (v) Just as a lamp manifests by its light the objects already existing in darkness, so also the *svara-s* are manifested by the *sruti-s*.

These views may be critically examined as under:

- (i) The first view does not hold good; for *spara* and *śruti* are two different concepts related in the spirit of the supporter and the supported, and cannot as such be identical. Moreover, *fruti* and *spara* cannot be related as the general and the particular merely on account of the non-distinction in the mode of their perception, for 'non-distinction' cannot logically be confused with universality.
- (ii) The second view is still less plausible, for if the svara-s are taken to be mere appearance with reference to *śruti-s*, they have no reality of their own, which is not the case in practice. The svara-s are no less real than the *śruti-s*.
- (iii) It is contended by this view that *sruti* and *svara* are related as cause and effect. Though, *svara* follows *sruti* in the sequence of time, yet *sruti* cannot be considered to be the material cause of *svara* in the same way as a clod of mud can be said to be the material cause of the pot etc, because after the pot has come into being, the mud is no longer available to us apart from the pot. But, this does not hold good in this case; for, it will be untrue to say that apart from the *svara*, the *sruti-s* constituting the *svara* are not available. Since they are so available, the *sruti-s* cannot be taken as the material cause of the *svara-s*.

^{1.} From out of *sruti-s*, in the groups of four, three and two as already mentioned.

^{2.} In other words, *stuli-s* in different combinations bring different *svara-s* into being. The verbal form '*syuh*' is suggestive of a natural occurrence,

^{3.} This is constituted in principle by the first letters of the full names and these names accordingly are their diminutive forms or abbreviated symbols.

(iv) The fourth and the fifth views, being free of any such fault and having been supported by Matanga etc., are acceptable

In fact it is Matanga who was first to discuss this topic in such detail and 'K' has only reproduced his views in his own words. Matanga summarises the above five views in the following verse, though he also discusses them in detail :

"With respect to *stuti-s* five views are generally held, viz., identity, reflection, causation, transformation and manifestation" (Brhaddest 31).

Matanga points out the faults of the first three views, which are reproduced by 'K' and supports the last two views in general. But then finally he comes out in favour of the 'manifestation theory', as he says:

"By perception, inference and circumstantial evidence the *śruti-s* may be accepted as factors manifesting the svara-s" (Brhaddes's 53).

Thus, Mataŭga considers *śruti-s* to be the factors manifesting the *svara-s*, and Śārŭgadeva thinks that *śruti-s* give rise to the *svara-s*. It is obvious that both are saying the same thing in two different ways. The *śruti-s*, with respect to the *svara-s*, may therefore be taken to be the factors that in different combinations give rise to different *svara-s*, constitute them for a while, and so manifest them or make them perceptible.

As pointed out by 'K', Matanga has elucidated the significance of the names of the notes, which is represented briefly as under :

- (i) Salja-is so called because :
 - (a) it is the precursor (lit. the progenitor) of the six other notes, or
 - (b) it is brought into being by six other notes for, as an integrated part of the heptad (*saplaka*) it is manifested by the rest of the parts together.
 - (c) alternatively, it is produced by six organs of the body, viz., the nostrils, the throat, the palate, the breast, the tongue and the teeth.
- (ii) Rşabha—is so called ¹ecause it quickly appeals to (lit. arrives at) the heart, or as among the herd of cows a bull appears to be distinctly strong so also in the group of notes rşabha is strong and noticeable. It may be added that the first derivation is based on the word rşabha as grammatically derived from the root '75' to go; while the second is based on the literal meaning of the word, viz., bull which is taken as a symbol of strength. Alternatively, that which sounds (i e., bellows) like a bull is rşabha.

Section 3 : Nada, Srutt anti-ovata

- (iii) Gandhara—is so called because it holds musical speech. This interpretation is based on the grammatical derivation of the word gandhara, "gam dharayate-iti-gandhara". Alternatively, it is so called because it delights gandhara-s, the semi divine beings associated with music.
- (iv) Madhyama—is so called because it is in the centre of the seven notes having three on either side. This derivation is based on the literal meaning of the word madhyama, which means belonging to the centre. 'K' also gives two other alternatives which seem to be far-fetched.
- (v) Pañcama—is that which measures the extent of other notes; or it is so called because it is fifth from the fundamental note. The first view presents a grammatical derivation jointly from two roots, 'pac'—to extend and 'mi'—to measure. How it measures the extent of other notes will be made clear subsequently in the context of pramaņa śruti (in the appendix). According to another interpretation, Paŭcama is so called because it is produced from the fifth place.
- (vi) Dhaizata—is so called because being brought about by the śruti-s of the 'posterior tone' it is to be discerned by sensitive minds. The expression 'posterior tone' representing the original 'uttarasvara' is a technical one. The musical scale is divided into two parts with madhyama in the centre and a group of three notes on either side of it. The notes of the first triad are called pürvasvara-s, i. e., the 'anterior tones' and those of the other following triad are called uttara-svara-s 'posterior tones', and both the triads are respectively called pürväiga and uttarānga, i. e., the anterior section and the posterior section of the heptad (saptaka).
- (vii) Niga da—is so called because the notes of the scale come to a close with it. The word is derived from the Sanskrit root ini+gad' to come to a rest. note of the heptan (saplaka).

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(ii) **स्**वरत्तचणम् श्रुत्यनन्तरभावी यः स्निग्धोऽनुरणनात्मकः ।।२४।। स्वतो रञ्जयति श्रोतृचित्तं स स्वर उच्यते ।

(ii) The definition of svara (tone):

Immediately consequent upon śruti¹, creamy³ and Now the svara is being defined. By the way, the essential difference between *śruti* and svara is also implied in this definition. When a string of the vina is plucked, the very first sound produced is considered to be *śruti* and the very next sound following it, which is the resounding of the *śruti* is called *svara*. In other words, whereas *śruti* is essentially free from resonance, resonance is the essential characteristic of *svara*.

The other two essential characteristic features of 'svara' are softness and self-sustained delightfulness.

There is a slight difference of opinion with regards to the interpretation of this definition of *svara*; 'K' thinks that since the author has already established the notes on the vlna and defined their *sruti*intervals, here in this context the word *sruti* means the fourth *sruti* etc., which when manifested resounds subsequently into *salja* etc. In other words, by *sruti* is meant that particular *sruti* which is capable of resounding into a note and which is technically called *svarasthana*, i. e., the seat of a note. However, it is notable that 'S' thinks that the sound produced by the first string (of the 22-stringed vlna) which is devoid of resonance is called *sruti* while the subsequent resounding sound is called *svara*.

It is interesting to compare this verse as translated by M.S. Ramaswami Aiyar in his edition of the *Svaramelakalanidhi* as it is borrowed verbatim by Ramamatya. He renders it as under:

1. The expression "*stuti-anantara-bhavi*" is specifically important for it is designed to stress on the one hand the characteristic difference between the concepts of *stuti* and *svara*, and on the other hand, their specific relation as well. *Svara*, in other words is a developed *stuti* Since *stuti* here signifies the sound produced by striking a viorating string in the first instant which is conspicuous by being free from resonance, *svara* signifies that very sound when it gathers vibrations of resonance and thereby becomes sonorous.

2. Snighta is defined as that (sound) which is soft and is also capable of being neard at a distance. Actually the literal meaning of the word is viscous' and is applied as such to liquids only; but here it is used figuratively. In this sense, it is a quanty of musical sound The opposite of snighta is raksa, i. e., rough or dry. resonating⁸, the sound⁴ that delights the listeners' minds by itself⁵ is called svara⁶. (24c-25b)

"That is called *soara*, which is by itself pleasing to the ear and the mind; which permeates the *sruti-s*; and which is tender and harmonic."

It will be noticed that he renders the expression "śrutyanantarabhāvt" as "which permeates the śruti-s". Apart from the value of this rendering from a translator's point of view, what is remarkable is the implied relationship of svara and śruti in this expression. That svara permeates the śruti-s means that, svara-s are involved in śruti-s.

- 3. Anuranana (anu+ranana lit. the 'post-sound' from ran to sound, to ring, to tinkle etc.) technically signifies the sound-vibrations of a string that are produced and that ordinarily follow the sound produced in it (by striking) in the very first instance, which is called ranana and is devoid of resonance. The term resonance (from resound, to echo, to ring, to go on sounding) is generally associated with the resounding of sympathetic strings or bodies other than that in which the original sound is produced; but anuranana differs from this concept in so far as it denotes resounding of the sound produced in the same vibrating string or body. However, for want of a better word it has been rendered as resonance.
- 4. The pronoun yah is used in the text for it.
- 5. This is the most important and distinguishing feature of soara, viz., that it should have the quality of delighting the mind of the listeners by itself, i. e., without the need for any other accompaniment or help. 'S' points out that this quality is related to the quality of softness attributed to svara.
- 6. It is notable that, whereas Matanga derives the word spara from the root raji-to shine, to appear, prefixing soa to it. Sarigadeva derives it from the root ranj-to delight. Both of these derivations are semantic explanations and do not have the precision of a grammatical authority. Even so, the difference of approach is significant. Sarigadeva seems to have been under the influence of Abhinavagupta in his interpretation, who stresses the element of resonance (anuranana) as the most distinguishing feature of the essential nature of svara (tone) in contrast with that of sruti, which he says is devoid of it. Accordingly, the beauty of a tone depends on the ratio of unresonating and resonating sound present in its production. Thus every tone has two elements, the unresonating and the resonating; if the former is greater in ratio the tone quality is the lowest, if both are equal it is medium and if the latter is greater it is the best (cf N. S., G O. S. Vol. IV, p. 13).

This line of thinking emphasises the element of delightfulness that essentially characterises the *svara*, and this is attributed mainly to the element of resonance in it. It is not therefore surpriving to find Saragadeva defining *svara* as that which is delightful by itself.

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Treatment of Svara

(iii) श्रुतोनां स्वरकारणत्वम् ननु अृतिश्चातुर्थ्याविरस्त्वेवं स्वरकारणम् ॥२४॥ त्र्यादीनां तत्र पूर्वासां अृतीनां हेतुता कथम् । बूमस्तुर्यातृतीयाऽऽदिः अृतिः पूर्वाऽभिकाङ्क्षया ॥२६॥ निर्घायंतेऽतः अृतयः पूर्वा अप्यत्र हेतवः ।

(iii) Discussion regarding *sruti-s* causing the *svara*: 25c-27b
 QULETA Well indeed, if such *sruti-s* as the fourth etc.¹, are admitted to be the cause of the *svara-s*, how can the other *sruti-s* such as the third etc.², be considered as their cause ? (25c-26b).

We shall presently explain it. Such a *śruti*, whether fourth or third etc.⁸, is determined only with reference to the preceding *śruti-s*⁴; therefore, they too constitute the cause of the *svara-s*. (26c-27b)

Now it has been established in principle that from out of *stuti-s* arise the *svara-s*, and therefore, *stuti-s* are conceived as the antecedent cause of the *svara-s*. Whatever be the difference of opinion with respect to the actual relationship between *svara* and *stuti*, there is no denying the fact that all the *stuti-s* go to bring about the *svara-s*. At the same time it is also asserted that since *svara* is that sound which immediately follows the *stuti* in the order of its resonance, it is the fourth, the third and the second *stuti* respectively of the three groups of four, three and two, that goes to produce the *svara*. If that be so, then the question is, "On what basis can the other *stuti-s* such as the third, the second and the first respectively of the groups of four, three and two be considered as constituting the cause of the *svara-s*?"

The answer is as obvious as the question is clear. The fourth or third or the second *stutic* can be so called only if it is preceded by three *stuti-s*, two *stuti-s* and one *stuti* respectively, and not otherwise. Thus all the *stuti-s* of a *spara* are responsible for its manifestation.

- 1. 'Fourth etc' of the text refers to column 4 of the above chart while by 'etc', Nos. 2 and 3 of the same column are included.
- 2. 'Third etc.' of the text refers to column 5 of the above chart, while by etc.' Nos. 2 and 3 of the same column are included.
- 3. As explained in note 1 above.
- 4. All those enumerated in columns 5 and 6 of the above chart.

The *sruti*-groups as related to the different *svara-s* are indicated in the following chart :

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sruti-groups and the *svara-s* (notes)

S. No.	<i>\$1uti</i> -group	svara-s	in ter	note-position in terms of <i>sruti</i>		ediately edent <i>śruti</i>		other antece- dent <i>sruli-s</i>		
-1	2	3	1 4	-	• • • • • • • • • • • • • • • • • • • •	5	1	6		
			1 1	in the scale	in the svara	in the scale	of the svara	of the svara & the scale		
	4- <i>śruti</i> interval	şa <u>l</u> ja madhyama pañcama	4th ,,	4th 13th 17th	3rd **	3rd 12th 16th		t 2nd & 1st 11th & 10th 15th & 14th		
2	3- <i>śruti</i> interval	t şabha dhaivata	3rd ,,	7th 20th	2nd ,,	6th 19th	lst "	5th 18th		
/3	2- <i>\$ruti</i> interval	gāndhāra nisāda	2nd ,,,	9th 22th	lst	9th 21th	-	••••••••••••••••••••••••••••••••••••••		

(iv) पञ्चजातिषु सप्तस्वरेषु च सनाम श्रुति-विभाजनम्

दीप्ताऽऽयता च करुणा मृटुर्मध्येति जातयः ॥२७॥ श्रुतीनां पञ्च तासां च स्वरेष्वेवं व्यवस्थितिः । दोप्ताऽऽयता मृटुर्मध्या षड्जे स्यादृषमे पुनः ॥२८॥ संस्थिता करुणा मध्या मृटुर्गान्धारके पुनः । दीप्ताऽऽयते मध्यमे ते मृटुमध्ये च संस्थिते ॥२९॥ मृटुर्मध्याऽऽयताऽऽख्या च करुणा पञ्चमे स्थिता । मृटुर्मध्याऽऽयताऽऽख्या च करुणा पञ्चमे स्थिता । करुणा चायता मध्या धंवते सप्तमे पुनः ॥३०॥ दीप्ता मध्येति तासां च जातीनां बूमहे भिदाः । तीवा रौद्री व्रजिकोग्ने त्युक्ता दीप्ता चतुर्विधा ॥३१॥ कुमुद्धत्यायता याऽस्याः क्रोधा चाथ प्रसारिणो । संदोपनी रोहिणो च मेदाः पञ्चेति कीर्तिताः ॥३२॥ दयावती तथाऽऽलापिन्यथ प्रोक्ता मदन्तिका । त्रयस्ते करुणामेदा मृदोर्भेदचतुष्ट्यम् ॥३३॥ मन्दा च रतिका प्रोतिः क्षितिर्मध्या तु पड्विधा । छन्दोवती रञ्जनी च मार्जनी रक्तिका तथा ॥३४॥ रम्या च क्षोभिणोत्यासामथ बूमः स्वरस्थितिम् । तोन्नाकुमुद्वतीमन्दाच्छन्दोवत्यस्तु षड्जगाः ॥३४॥ तोन्नाकुमुद्वतीमन्दाच्छन्दोवत्यस्तु षड्जगाः ॥३४॥ दयावती रञ्जनी च रक्तिका चर्षभे स्थिताः । रौद्री क्रोधा च गान्धारे वज्तिकाऽथ प्रसारिणी ॥३६॥ प्रीतिश्च मार्जनीत्येताः श्रुतयो मध्यमाश्रिताः । क्षिती रक्ता च संदोपन्यालापिन्यपि पञ्चमे ॥३७॥ मदन्ती रोहिणी रम्येत्पेतास्तिस्नस्तु धेवते । उग्रा च क्षोभिणीति द्वे निषादे वसतः श्रुती ॥३६॥

(iv) The allocation of *sruti-s* as characterised by their classes and names among the *svara-s* : 27c-38.

There are (five classess¹) of *sruti-s*, viz., *diplā*, *āyatā*, *karuņā*, *mīdu* and *madhyā*; their standing among the *svara-s* is stated to be as under (27c-28b)

Diptā, āyatā, and madhvā are found in şadja; karuņā, and mīdu find a place in īsabha; diptā and āyatā are located in gāndhāra and also in madhyama along with mīdu and madhyā; mīdu, madhyā, āyatā and karuņā are placed in pañcama, and karuņā, āyatā and madhyā in dhaivata; while diptā and madhyā are in nisāda. (28c-31a)

Now, we shall speak of the subdivisions of these classes : Diptā is said to be fourfold viz., tivrā, raudri, vajrikā and ugrā; ayatā is known to have five varieties viz., kumudvali krodhā, prasāriņi, sandipani and rohiņi; karuņā is said to be threefold,

Twentytwo *śruti-s* have been distinguished into flve classes. The basis of this classification has not been made explicit in the text, nor have the commentators found it necessary to clucidate it. However, it seems that the different classes of *śruti-s* have something to do with the relationship of notes and the *rasa-s* or the aesthetic colours attributed

1 Jati literally means 'species', 'class' or 'genus'.

viz., dayāvatī, ālāpinī and madantikā; mīdu is fourfold, viz., mandā, ratikā,³ prīti and kşiti; while madhyā is sixfold, viz., chandovatī, ranjanī, mārjanī, raktikā, ramyā and kşobhunī. (31b-35a)

And now we shall point out their position among the svara-s :

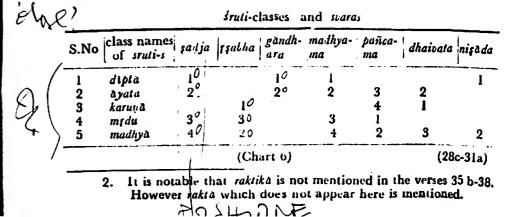
Tivrā, kumudvatī, mandā and chandovatī pertain to şadja; dayāvatī, ranjanī and raktikā are related to rṣabha; raudrī and krodhā are in gāndhāra; vajrikā, prasāriņī, prīti and mārjanī abide by madhyama; kşiti, raktā, sandīpanī and ālāpinī are in pancama; the three madantī, rohiņī and ramjā in dhaivata and the two śruti-s, ugrā and kşobhiņī dwell in nişāda. (35b-38)

to them in the ancient theory of Indian music. This is implied in their nomenclature and elucidated as under :

- (i) Dipta, 'dazzling'; literally, illumined,
- (ii) Ayata, 'vast'; literally, extended,
- (iii) M_fdu, 'tender'; literally, soft,
- (iv) , Madhya, 'moderate'; literally, medium or central, and
- (v) Karuna, 'compassion'.

The names signify tonal sequence in melodic development and are representative of emotional colour; this aspect would be more clear with the further classification of the classes, as it follows.

The distribution of *stuti*-classes among the different notes is illustrated in the following chart (No. 6), which at once elucidates the relationship of a particular note with the different *stuti*-classes and also the relationship of a particular *stuti*-class to different notes. The numbers in the squares indicate the position of a particular *struti* in the group of *stuti-c* constituting a particular note.



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The five *stuti*-classes are further subdivided each having quite a few varieties. That means, each *stuti* belongs to a class which implies a class attribute common to all the *stuti-s* of the class and that class comprehends a few varieties implying special traits along with the class character. This specific character seems to be the association of a particular class-*stuti* with particular notes. For example, *dipta* is associated with four notes and is said to be of four varieties, *ayata* is associated with five notes and has five varieties and so on, as it is illustrated in the following chart (No. 7).

The chart illustrates the subdivisions of the *svati*-classes, representing their class characters as distributed among the *svara*-s, indicating thereby their specific traits. The names in the squares pertain to the class subdivisions. The number alongside indicates the position of the *sruti* in the *sruti*-structure of the *svara*. The chart illustrates the subject **matter of verse** Nos. 35b-38 as well.

Subdivisions of *śruti-classes* distributed among the *svara-s*

Svara or note signifying specific	sruti	class names	signifying	general cha	aracters
characters	dipla	oyata	m[du	madhya,	karuņā
Şaija	tiora-1	kumudvati-2	mandā-3	chandovati-4	
Rşabha	-		vaktika-3	rañjani•2	dayavati-1
Gandhara	raudri-1	krodha 2	•• ·	· · · · · · · · · · · · · · · · · · ·	
Madhyama	vajrika-1	prasāriņt-2	priti-3	marjant-4	
Pañcama		sand 1 pani-3	kşiti-l	rakta-2	alapin1-4
Dhaivata		rohin1-2		ramya-3	madant1-
Nişāda	ugrā-1			kşobhin1-2	•=

(Chart 7)

(31b-35a)

Chart No. 7 graphically illustrates the position of these particular *sruti-s* in the different note-intervals. The names of these *sruti-s* are suggestive of their aesthetical value as related to their tonal quality. Contemplating upon the value or the purpose of classification of *sruti-s* briefly, 'S' suggests that they are perhaps designed to arouse the feelings or the affections implied by their names. This hypothesis is quite plausible and the whole scheme of this *sruti*-classification needs to be scientifically investigated. (35 b-38) Section 3 : INALLA, JELLY MALL -----

(ए) स्वराणां स्थानज्ञयम्

मन्द्रमध्यताराख्यस्थानभेदात्त्रिधा मताः ।

(v) Three sthana-s (registers) of svara-s : (39ab)

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These (svara-s) are considered as threefold according to the different registers known as mandra, madhya and tara, i. e., Now, medium and high: (39ab)

Having dealt with the *stuti-s*, the *stuti-classes* and the development of notes out of them, the author now proceeds to demonstrate the differentiation and the classification of notes.

In the first instance the notes are classified according to their sthana i. e., the place of perceptible effort for voice-production in the human organism. It has already been pointed out by the author (verse 7 ante) that nada manifests itself in three places, viz., in the region of the heart, throat and the cerebrum. These are the three sthana-s from which notes are produced. Corresponding to these three, the notes are classified in three registers or to speak loosely, three octaves, viz., mandra, madhya and tara. Mandra represents what is known as chestvoice, madhya is throat-voice and tara is the high (head).

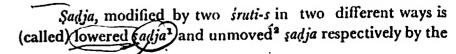
(vi) द्वादश विक्रतस्वराः

त एव विकृतावस्था द्वादश प्रतिपादिताः ॥३९॥

च्युतोऽच्युतो द्विधा षड्जो द्विश्वतिविकृतो भवेत् । साधारणे काकलीत्वे निषादस्य च दृश्यते ॥४०॥

(vi) Twelve modified notes : 39c-46b

These notes, in their modified form, are established as twelve. (39cd)



1. Cyuta literally means sub-standard, fallen or lowered in pitch.

2. Acrula is steadfast, standard and unmoved.

साधारणे अुति षाड्जीमृषभः संश्रितो यदा । चतुःश्रुतित्वमायाति तर्दको विक्वृतो भवेत् ।।४१॥ साधारणे त्रिश्रुतिः स्यादन्तरत्वे चतुःश्रुतिः । गान्धार इति तद्भेदौ द्वौ निःशङ्क्वेन कीर्तितौ ।।४२॥ मध्यमः षड्जवद् द्वेधाऽन्तरसाधारणाश्रयात् । पश्चमो मध्यमग्रामे त्रिश्रुतिः कंशिके पुनः ।।४३॥ मध्यमस्य श्रुति प्राप्य चतुःश्रुतिरिति द्विधा । धंवतो मध्यमग्रामे विक्वतः स्याच्चतुःश्रुतिः ॥४४॥ कंशिके काकलीत्वे च निषादस्त्रिचतुःश्रुतिः ।।४४॥ प्राप्नोति विकृतौ भेदौ द्वाविति द्वादश स्मृताः ॥४४॥ ते शुद्धैः सप्तभिः सार्धं भवन्त्येकोनविंशतिः ।

process of sādhāraņa⁸ (overlapping) and the 'kakalisation'⁴ of nisāda. (40)

When, in the process of sadja-sādhārana⁵ (the overlapping of sadja), rsabha absorbs one sruti of sadja, it attains the

Though the notes in their original form are found to be seven only, it is said that in actual usage when their standard pitch is modified either by <u>augmenting it or by lowering</u> it, they are known to be twelve in all. The modified notes or the *vikyta svara-s* are discussed in the following few verses. (39cd)

The modification of notes is dealt with from verse 40 to 45 and in this space the author explains how the modified notes are formed and why they number twelve.

Salja is modified to the extent of two *sruti-s* in two different ways, viz. (i) by losing its note-*sruti* (i. e., 4th) to the advantage of <u>15abha</u> and its initial *sruti* (i. e. 1st) towards *nisnda*, and (ii) by yielding its first two *sruti-s* to *nisāda*. The first process is called *cyuta-sadja-sādhāraņa* (the overlapping of lowered *sadja*) and affects the position of the note-*sruti* of *sadja* which is technically called *cyuta-sadja* (lowered *sadja*), and the second process is known as the kākalitva of *nisāda*, by which *nisāda* gains

3. Sadharana refers to sadja-sadharana.

4. When nisada is augmented by gaining two *stutis* of salja, it is transformed into kakalt-nisada and this transformation of nisada is technically named as "the kakalisation of nisada."

5. In the text only sadharanu is mentioned, but it is the sadjasadharana that is intended; it has been made explicit to avoid confusion in the English version. interval⁶ of four *sruti-s*, and that is its only modified form. (41ab)

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Gāndhāra assumes two modified forms as enunciated by Sārangadeva⁷ viz., with three *sruti-s* in the process of *madhyama⁸-sādhārņa* (the overlapping of *madhyama*) and with four *śruti-s* in the case of *antaragāndhāra*. "(41c-42b)

the two initial *stuti-s* of *salja* leaving its note-*stuti* quite unaffected. The second process is, therefore, associated with *acyuta sadja*, i.e., unlowered or unmoved *salja*. This subject matter is dealt with in detail in Section 5 of this chapter. It may, however, be noted that the modified *sadja* has only two *stuti-s* viz., the second and the third, and the third and the fourth respectively of the original four.

'S' raises an interesting question. In the case of unmoved sadja, sadja retains its sruti-note intact while yielding two initial sruti-s to nisāda; therefore, its pitch remains unaffected, how then can its tone be called modified ? As it is obvious and also explained by 'S', normally sadja is at the distance of four-sruti-interval from nisāda which in its modified state is reduced to that of two-sruti-interval. Now, since the tonal value of the notes is essentially relative in this system, the reduction in the extension of sadja is adequately felt. Thus, even though the pitch remains the same, the duration and the tonal content is modified. (40)

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In the process of the overlapping of salja, its first sruti is gained by the preceding nisada and its fourth sruti is attached by *rsabha*, the extent of which is extended thereby to four-sruti-interval; and this is the only modification undergone by *rsabha*. Rsabha is thus composed of the *sruti-s* numbering 4th to 7th from the first of *salja*.

Just as *sadja* is modified in two forms viz., by the overlapping of *sadja* and the 'kakalisation' of *nisūda*, so also *madhyama* is modified in

6. Catuh-śrutitva consists in having the note-interval of four śruti-s.

7. Nihšanka of the text literally means 'free from doubts' and is an epithet of Saragadeva.

8. Only sadharana is spoken of in the text but, obviously madhyamasadharana is applicable here, and so it has been made explicit.

9. Antaratva consists in gandhara gaining two initial śruti-s of madhyama which by itself remains of two-śruti-measure only. Thus, by this action, gandhara gains a medial (antara) position between standard gandhara and madhyama, and is therefore called antara-gandhara, i e. medial gandhara. Antaratva, therefore, signifies the 'medial position' of gandhara.

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Treatment of Svara

Madhyama, like <u>sadja</u> is (modified) in two ways viz., by taking resort to the process of 'antara' and that of sādhāraņa'. (42cd).

Pañcama is of three *sruti*-measure in the madhyama-grāma, while in the madhyama-sādhrāana¹⁰ (the overlappng of madhyama), gaining one *sruti* from madhyama it extends to four *sruti-s*; and is thus modified in two ways. (42-44b)

Dhaivata of madhyama-grāma is modified to be of four sruti- interval. Nisāda is modified in two ways viz., in its kaišika and kākalī forms having three and four sruti-s respectively. And so they make twelve modified forms, which along with the seven standard¹¹ notes become nineteen in all. (44c-46b).

two ways viz. (i) by fielding one sruti to gandhara and one to pañcama, an example of cyuta (lowered)-mathyama, and (ii) by affording its two initial sruti-s to gandhara, an example of acvuta (unmoved)-madhyama. The former mode is called madhyama-sadharana (the overlapping of madhyama) and the latter is known as antara-sadharana.

Thus, when gandhara is modified by the overlapping of madhyama, it gains its initial śruti and is thereby constituted of three śruti-s viz., the 8th, 9th and 10th; and when it is modified by the medial position of gandhara (antaratva) it appropriates two initial śruti-s of madhyama to itself and the number of its śruti-s swells to four, viz, 8th to 11th. This latter gandhara of four śruti-s is called antara gandhara. Thus gandhara has two modified forms, viz., sadharana (i.e., the one consequent upon madhyama-sadharana) and antara (i.e., antara-gandhara) constituted respectively by śruti-s numbering 8th to 10th and 8th to 11th from the first of sadja. (41-42b)

In the modification of gandhara, the two processes of the overlapping of madhyama and the medial position of gandhara have been explained with reference to gandhara. Now, we have to consider them from the point of view of madhyama.

Madhyama is constituted by the *struti-s* numbering 10 to 13 in the unmodified series. By the process of overlapping ma lends 10th *struti* to

ga and 13th fruti to pa and retains 11th and 12th fruti-s itself. In the process of the medial movement (antaratva) of gandhara ma yields 10th and 11th fruti-s to ga, and retains only 12th and 13th fruti-s. So, these are the two modified forms of madhyama, constituted respectively of 11th, and 12th, and 12th and 13th fruti-s. (42cd)

There is an obvious similarity between the modifications of sadja and madhyama as previously pointed out. With respect to the grama-s, we are going to be informed adequately in the next Section of this chapter. For the present, it may be understood roughly that a grama signifies a series of notes related in a certain order. Two such scales were in practice. viz., sadja-grama, having sadja as its prominent note and madhyama-grama, having madhyama as its prominent note. Pañcama is established on the 17th *sruti* in sadja-grama and on the 16th *sruti* in madhyama-grama. This is one way how the two grama-s are distinguished from each other; of course this also affects the relative position of other notes which we shall see in due course.

Now, with this background we can follow the text. In the madhyama grāma, paūcama comprises the 14th, 15th and the 16th śruti-s, whereas in the <u>sadja grāma</u>, it also has the 17th śruti which is considered to be the note-śruti and therefore, the '16-śruti' paūcama is one of the modifications of the standard paūcama. Another modification occurs by the process of the overlapping of madhyama (i e madhyama-sadharana), when it gives up 13th śruti which is absorbed by the paūcama of madhyama grāma. The standard form of the paūcama of madhyama grāma. The standard form of the paūcama of madhyama is extent widens to four śruti-s, i. e., 13th to 16th, and this constitutes another modification of paūcama. '42c-44b)

While pañcama is established on the 16th sruti in madhyama-grama, the 17th sruti which is the note-sruti of pañcama in sadja-grama is released and absorbed by dhaivata, which consequently comprises the sruti-s numbering 17 to 20 i.e., four in contrast with the standard three viz. 18 to 20 of the sadja-grama. Thus, this is the only modification of dhaivata.

Kaišika is another name for sādhāraņa Kaišika-nişāda which is a product of the overlapping of şa,ļja when it yields its initial śruti to nişāda, swelling it to three śruti-s in extent viz., 21st and 22nd and 1st. Similarly, nişāda is transformed into kakali-nişāda when it gains two initial śruti-s of şa,lja and comprise 21st, 22nd and 1st and 2nd śruti-s. Thus nişāda has two moditied forms respectively known as kaišika-nişāda and kākali-nişāda.

The twelve modified notes as related to the standard (*suddha*) notes can be studied at a glance from the following chart :

^{10.} Kaisika is another name for sadharana.

^{11.} The word *suddha* has to be interpreted with reference to the word *vikfta*. *Vikfta*, simply means modified and therefore *suddha* would mean unmodified. But since that is a negative expression and the general tenure of the term *suddha* is rather positive, it seems it would be better to render it as 'standard'.

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Treatment of Svara

Modified notes as related to standard notes in terms of sruti-s'

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	name of 1	stan	dard		modili	ed note		no. of		-sruti-s
1. [o.	svara-s (notes)	extent	tes No. of <i>sruti-s</i>					modi- fied notes	ard	- modi- fied notes
	1		2	3		4		5 /		6
1	şaqja	1-4	4	2-3	2	3-4	2	2	4th	(i) 3rd (ii) 4th
2	t şabha	5-7	3	4-7	4				7th	7th
3	gandhara	8-9	2	8-10	3	8-11	4	2	9th	(i) 10th (ii) 11th
4	madhyama	10-13	4	11-12	2	12-13	2	2	13th	(i) 12th (ii) 13th
5	pañcama	14-17	4	13-16	4	14-16	3	2	17th	(i) 16th (ii) 16th
6	dhaivata	18-20	3	17-20	4			1	20th	20tl
7	nişāda	21-22	2	21-1	3	21-2	4	2	22nd	(i) 1st (ii) 2nd

(Chart 8)

It is worthy of note in column 6 that in the case of serial nos. 1, 2, 4 and 6 the note-*stuti-s* of the standard notes and the modified notes coincide respectively as the 4th, 7th, 13th and 20th. This phenomenon needs an explanation which is offered as follows:

- (i) Though the note-struti of the second modification of sadja is 4th just like the standard sadja, it differs from it in so far as its note-interval from nisada is only of two-struti measure as compared with four-struti interval of the standard sadja.
- (ii) Although the note-*stuti* of the modified *tşabha* is the same as that of the standard *tşabha* viz., the 7th, its note interval is of four-*stuti* measure from *şa:ja* as against the three-*struti* measure of the standard *tşabha*.
- (iii) The note-sruti-s of the standard madhyama and its second modification are identical viz., the 13th. but whereas the note interval of the modified form is of two sruti-s from gandhara, that of the standard form is of four sruti-s.
- (iv) Similarly, the note-*struti* of standard *dhaivata* is identical with the note-*struti* of modified *dhaivata*; and yet the note-interval of the modified form is four *struti-s* from *paincama* whereas the standard note-interval is only three *struti-s*.

Thus, even though the note-*sruti-s* in certain cases are identical the note-intervals of the standard and the modified forms being quite different, there is no room for any confusion with regard to their character. (44c-46b)

(vii) सप्तस्वराणामुच्चारयितारः पशुपक्षिराः मयूरचातकच्छागक्रौञ्चकोकिलदर्दुराः ॥४६॥ गजश्र सप्त षड्जादीन्क्रमावुच्चारयन्त्यमो ।

(vii) Production of svara-s (tones) by the birds and animals : 46c-47b

The seven notes commencing with *sadja* are produced respectively by the peacock, *cātaka*¹, goat², heron, cuckoo, frog and the elephant. (46c-47b)

The seven notes of the heptad⁸ (saptaka) are perceived and utilised not only by the human beings, but also by the rest of the animal kingdom. The notes have been identified with the expressions of particular animals and birds. The author does not elaborate this theme and merely seems to have recorded a popular concept that confirms the fact that the notes actually exist in nature and are only seven. The following extract from the article of Bulwant Trimbuk, as published in the 'History of Hindu Music' (p. 11) will be found to be of great interest.

"Nature is never stingy or cruel to her children, when they serve" her earnestly. The same craving after knowledge and spirit of patient enquiry which discovered to the Aryans that the high, low and middle notes had typical representatives in the animal kingdom, the same musical ear which showed them the sounds proper for repeating the lessons in the morning, noon and at other times, disclosed to them that the animals produce certain notes, and no more. They found that the peacock, ox, goat, crane, black-bird, frog and elephant uttered certain distinct notes, and that all the notes of the denizens of the forest could be put down under one or the other of those 7 heads. In this way were the seven musical notes found and fixed upon."

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1. Gataka is a bird of poetic convention. It is held that this bird takes only rain-water. Kunhan Raja's note in this respect is quite interesting and is reproduced verbatim:

"Cataka is a mythological bird supposed to have holes in the neck, and as such, unable to drink water in the ordinary way; they drink water remaining with their breast upwards when rain falls, so that the water does not leak out through the holes."

- 2. K. R. renders it as 'ram'.
- 3. Heptad is used as an equivalent of Sanskrit saptaka, which is conceived in place of the octave.

He also relates certain psychological states of mind, aesthetic moods with the notes and the animals as reproduced in the following table. The rasa-s or the aesthetic moods are in theory attributed to various notes by our author as well.

Notes as related to the birds and animals and the rasa-s

Sanskrit notes	English notes	Sanskrit names	English names	Types in the animal kingdom	Sentiments peculiar to
Sa	С	Shadja	Do	Peacock	Heroism wonder, terror
Ri	D	Rishabha	Re	Ox or Chataka	do
Ga	Е	Gandhara	Mi	Goat	Compassion
Ma	F	Madhyama	Fa	Crane	Humour & Love
Pa	G	Panchama	Sol	Black- bird	-do-
Dha	A	Dhaivata	La	Frog	Disgust, Alarm
Ni	В	Nishada	Si	Elephant	Compassion
			(Char	t 9)	

Note :---Spellings and English equivalents of Sanskit words have been retained as in the original.

(viii) वादि-संवादि-विवाद्यनुवादिभेदेन चतुर्विधाः स्वराः चतुर्विधाः स्वरा वादी संवादी च विवाद्यपि ॥४७॥ अनुवादी च वादी तु प्रयोगे बहुलः स्वरः ।

(viii) Sonant, consonant, dissonant and assonant notes : 47c-51

The notes are fourfold viz., sonant¹, consonant², dissonant³ and assonant⁴; of these, sonant is that note which in

Having defined the relative form of the notes, the author now proceeds to classify them from a different point of view, viz, on the functional basis. The Sanskrit name for sonant is vadi, which literally means

- 1. Vadi, literally means speaker i. e, the note that frequently sounds.
- 2. Samuadi, literally means the corresponding note, the note that converses in tune with the sonant, with the vadi.
- 3. Vivadt, literally means the opponent, the disputant i e., the note of discord
- 4. Anuvad1, literally means that which sounds afterwards, which follows i.e., the note that supports the sonant.

श्रुतयो द्वादशाष्टौ वा ययोरन्तरगोचराः ॥४८॥ मिथः संवादिनौ तौ स्तो निगावन्यविवादिनौ । रिधयोरेव वा स्यातां तौ तयोर्वा रिधावपि ॥४९॥ शेषाणामनुवादित्वं वादी राजाऽत्र गीयते । संवादी त्वनुसारित्वादस्यामात्योऽभिधीयते ॥४०॥ विवादी विपरोतत्वाद्वीरंष्क्तौ रिपूषमः ।

performance is most frequently used. The notes having an interval of eight or twelve *sruli-s* are mutually consonant. Ni and ga are dissonant to all other notes, or to ri and dha only, or ri and dha too are their dissonants. The rest of the notes are related as assonants. (47c-50a)

The sonant among them⁵ is considered to be the ruler, while the consonant, being in concert with it, is called the minister; the dissonant being antagonistic is likened by the sages to an enemy, the assonant⁶, however, since it follows the king as well as the ministers, is like a servant. (50b-51)

speaker. The name itself is suggestive of its function viz, the one that sounds frequently, and thereby establishes the melodic pattern of raga. Generally, the sonant is also the fundamental note (the tonic), specially in the jati and grama-raga-s.

'K' <u>defines</u> sawoadi i.e., consonant as the note which, in consonance with the sonand, creates the quality of delightfulness in a raga (a melodic structure) and helps to maintain it. 'S' raises the point that, whereas Śārńgadeva has spoken of eight or twelve *sruti*-intervals being the necessary condition for consonance of notes, Matańga and Dattila have mentioned nine or thirteen *sruti-s* as constituting the required interval. Now, in order to answer this question as well as to grasp the whole concept of consonance of notes, it is necessary to examine the statements of Matańga and Dattila. Matańga says :

"The notes placed at the interval of nine or thirteen *sruti-s* are mutually consonant" (as quoted by 'S').

- 5. That is, the four types of notes viz., the sonant, the consonant, the assonant and the dissonant.
- 6. The assonant is like a servent, in so far as it has no other function except to strengthen the leading note in concordance with the consonance; it has no individuality of its own.

It is important to note that Matauga lays down the condition of the notes being of identical *sruti-measure*, in addition to the required⁴ note-interval of nine or thirteen *sruti-s*. Following Matanga, Abhinavgupta elaborates the concept of samasrutikata (identity of sruti-measure) of a tone with reference to the last *sruti* of the preceding tone. Thus Bharata has enumerated the following pairs of consonant notes in the saija-grama : sa-ma, sa-pa, ri-dha and ga-ni based on 9 and 13 srutiintervals. What is notable is that he has not included the pair of ma-ni which implies a 9 stuti-interval. This is so because ma and ni being at a distance of 4 and 2 stuti s from the last stuti-s of their respective preceding notes are not identical in their sruti-measure. Thus the phenomenon of svara-samvada which is inaccurately identified as the consonance of notes, is not only an acoustical but also a melodic phenomenon. In the former case it signifies the relation of svara-s in terms of the sruti-interval obtaining in-between them and in the latter case it refers to the identity of srulimeasure constituting them. The melodic effect of this aspect of starasamuada is amply demonstrated by reciprocal triads formed by the consonance of notes as defined above. For example, Brihaspati points out that in case of ma-ni, which has been excluded by Bharata from the consonant pairs, 'ma-ga-ri' cannot be reciprocated by ni as 'ni-dha-pa', the reciprocal triad would be 'sa-ni-dha' and not 'ni-dha pa'. Hence ma-ni have not been spoken of as having samuada" (cf. I.M. J. No. 7, p. 60 and P.L.S.: I.M. J. Nos. 11-12, p. 57).

Incidentally the minute difference between the concept of consonance in western music and samuad of Indian music is also made clear through the concept of samasrutikata.

Furthermore, as 'S' explains, Matanga includes the note-*struti* of the note with which consonance is established in the number of *struti-r* forming the interval, whereas Sārāgadeva excludes it; that is why Sārāgadeva speaks of eight and twelve *struti-interval* and (Bharata), Matanga and Dattila add one more to state as nine and thirteen-*struti*interval. For example, take the consonance of *sa-pa*. The note-*struti* or *sa* is 4th and that of *pa* is 17th; and if, while measuring this interval, one counts from 4th (including it) to 16th it would make for a thirteen*struti* interval but if the 4th is excluded, then it would make for a twelve-*struti* interval. The consonance of notes is reflected in the following chart:

Sonants and consonants

onants	consonants	note-interval	note-interval of Matanga	Relation
·	(i) ma	8	9	şadja-madhyama
Sa	(ii) pa	12	13	şadja-pañcama 🕂
Ri	dha	12	13	39
Ga	ni	12	13	در
Ma	sa	12	13	>>
Pa	sa	8	9	şadja-madhyama
Dha	ri	8	9	>>
Ni	ga	8	9	>>
· · _··	()	(Cha	rt 10)	

It will be clear from the above chart that even though all the notes have their own consonants in turn, yet only two relations of consonance, viz., the 8-*śruti* and the 12-*śruti* intervals are recognised; and these are respectively known as the *şadja-madhyama* relation and the *şa lja-pañcama*relation.

But what is the function of the consonance of notes in perforinance? 'S' explains on the authority of Matanga (obviously) that, the underlying principle is that a consonant note can replace a fundamental note (i. e. tonic) without damaging the spirit of the mode and the raga (the melodic pattern). For example, in case of sa-fa consonance, if in a given composition sa is the fundamental note and it is substituted by fa, it would not adversely affect the value of the aesthetic potential of the melody.

It may also be noted that even though Matauga concedes the relationship of consonants only between the notes of identical or equal *struti*-measures, 'Sarugadeva in agreement with Dattila does not mention this condition. Thus he would admit consonance between whatever notes that are placed at the distance of 8 or 12 struti-s.

Now with regard to the dissonant notes the author presents two or three views altogether :

- (i) that ga and ni are dissonant to all other notes
- (ii) that ga and ni are dissonant to ri and dha
- (iii or/and ri and dha too are dissonant to ga and ni.

The underlying principle, however, seems to be that the notes having two *sruti* s are dissonant. This is enunciated by Matanga when

he says "Notes extending to two *sruti-s* are dissonants". The function of dissonants is defined by Matanga and elucidated by 'S' to the purport that the notes that can only disturb and destroy the melodic structure of a raga, established in the configuration of the fundamental note (tonic), the assonant and the consonant notes put together, are dissonant. Again this yardstick has to be applied through the principle of substitution i. e., if ga is substituted for ri or vice versa, then the mode and the melodic pattern of the composition are disturbed, and consequently there is loss of aesthetic effect.

The notes that are not mutually related either as consonants or as dissonants are considered to be assonants. 'S' quotes Matanga who says that notes short of one *sruti* interval are assonants. Thus, for example he says, if *tşabha* is used for *şadja*, *dhaivata* for *pañcama*, *tşabha* for *pañcama*, or *dhaivata* for *şadja* or vice versa, the mode of the melodic pattern is not adversely affected. 'S' adds *tşabha* for *madhyama*, and *dhaivata* for *madhyama* and vice versa in this line.

But what is the function of assonants? Anuvadi literally means that which sounds after (the dominant) i.e., the note that follows or supports the sonant. Matanga also lays down that "the function of the assonant is to fortify and strengthen the sprit of the melodic pattern established by the sonant." (47c-50a)

The relationship of the four classes or functions of the notes is illustrated by a metaphor. Just as it is the king who commands in consultation with his minister, so also does the sonant function in close coordination with the consonant, and yet enjoys the supremacy of the king. The assonants are so many servants working for the sonant and the . consonant, strengthening them; and the dissonant is like the enemy of _ the whole team. (50b-51)

(ix) स्वराणां कुल-जाति-वर्ण-देवतर्षि-च्छन्दोरस कथनम् गीर्वाणकुलसंभूताः षड्जगान्धरमध्यमाः । पञ्चमः पितृवंशोत्थो रिधावृषिकुलोद्भवौ ॥४२॥

(ix) Lineage, caste, colour, continent, sage, deity, metre and rasa (aesthetic delight) of the svara-s : 52-60b

Sadia, gandhara and madhyama are of divine origin¹, pañcama has arisen from the lineage of manes, rsabha and

निषादोऽसूरवंशोत्थो बाह्यणाः समपञ्चमाः रिधो तू क्षत्त्रियौ ज्ञेयौ वैश्यजाती निगौ मतौ ।। १३।। शुद्रावन्तरकाकल्यौ स्वरौ वर्णास्त्विमे क्रमात । पद्माभः पिञ्जरः स्वर्णवर्णः कुन्दप्रभोऽसितः ।।५४।। पीतः कर्बुर इत्येषां जन्मभुमीरथ बुवे। जम्बूशाककूशक्रौञ्च शाल्मलीश्वेतनामसू । 1 ४ ४ ।। द्वीपेष पूष्करे चैते जाताः षड्जादयः क्रमात् । वह्निर्वेधाः शशाङ्कश्च लक्ष्मीकान्तश्च नारदः ।।५६।। ऋषयो ददशुः पञ्च षडजादींस्तुम्बुर्छ्धनी । शर्वश्रीशगणेश्वराः ॥४७॥ वह्निब्रह्मसरस्वत्यः सहस्रांश्चरिति प्रोक्ताः क्रमात्षड्जादिदेवताः । क्रमादनुष्ट्ब्गायत्त्री त्रिध्ट्ण्च बृहती ततः ॥४८॥ पङ क्तिरुष्णिक्च जगतीत्याहश्छन्दांसि सादिष । सरी वीरेऽद्भुते रौद्रे धो बीभत्से भयानके । । ४९।। कायौँ गनी तू करुणे हास्यश्टङ्खारयोर्मपौ।

dhaivata are the progeny of the $rsi-s^{2}$ (sages), while *nisāda* has sprung from the demonic ancestry. (52-53a)

Şadja, madhyama and pañcama are brahmins⁸, rşabha and dhaivata are known as belonging to the princely class⁴, nişāda

We have already come across two classifications of notes; here are a few others on quite different grounds. The basis for these classifications, as it will be seen, is peculiarly historical and cultural; and there-

- 2. Rsi is usually translated as 'seer' or a sage; that being true, in this context a *tsi* is the recipient of the vision of the mantrass (i. e vedic hymns).
- 3 Brahmin is the superior-most caste among the caste Hindus who comprise wrahmana's, ksatriya-s and vaiya-s, roughly conforming to the three classes of Plato's ideal society viz., the philosophers, the rulers and warriors, traders and ploughmen. The fourth caste of sudra comprises slaves and servants of lower class Actually, the caste system of the Hindus is based on the four functional divi ions of the human body viz., the head, the arms, the stomuch and the fret.
- 4. Ksatriya, literally means the warrior (class).

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^{1.} Gimmakula, literally means the house of gods', or in fact, the concept 'kula' is akin to the concept of commune; thus the expression implies that sa, ma and pa are descended from the

and $g\bar{a}ndh\bar{a}ra$ are considered to be in the merchant class⁵, while the notes antara-gandhara and kakali-nisada are of the servant class.⁶ (53b-54a)

Their respective colours are red⁷, pale yellow⁸, golden yellow, sparkling white⁹, black, plain yellow and variegated. (54b-55a)

Then I am to describe the lands¹⁰ of their origin. The notes *şadja* etc., are respectively born in the continents of *Jambū*, *Śāka*, *Kuša*, *Krauūca*, *Śālmalī*, *Śveta* and *Puşkara*. (55b-56b)

fore, peculiarly Indian in orientation. Moreover, it is not always possible to trace the historical-cum-mythological background in which the classification and its nomenclature were significantly employed. For example, one can hardly say anything about the classification of notes based on their origin from the gods, manes, sages and demons, but one can guess with obvious justification with respect to the other classification based on caste. Incidentally these attributes go to project the individual images of the notes lending them a personality.

Sadja, madhyama and pañcama have four *stuti* s each, r_sabha and *dhaiwata* have three, *nisāda* and *gāndhāra* have two; so obviously they have been evaluated according to their *stuti*-value and assigned the best, the middle and the lower position among the society of *swara-s* (notes). However, *antara* and *kākali* are treated as outcastes since they are not employed as the fundamental notes, and are therefore, degraded from the position of full-fledged *swaratva* (i.e. the capacity, to be an independent musical note). (52-54a)

There is a state of consciousness arrived at through yogic process in which colour and sound appear in a unified perception. The notes have been assigned particular colours here. These colours may be related to the particular aesthetic effects subsequently attributed to the notes or

- 5. Vailya-s include traders, farmers, industrialists and the producers of every type.
- 6. Sudra-s are those who are not free citizens, who are in the service of other individuals etc.
- 7. Padmabha is interpreted by 'S' as red; literally it means 'shining like a lotus' as rendered by 'K. R.'. However, we do have a red lotus and therefore, the interpretation of 'S' may be taken to be authentic.
- 8. Piñjara is defined by 'S' as slightly yellow or yellowish.
- 9. Kunda is a flower and 'K. R.' identifies it with jasmine. 'S' interprets it as brilliant and white.
- 10. Places of birth.

The *rşi*-s¹¹ (sages) who discovered the first five¹³ notes commencing with *şadja* etc., respectively are Vahni¹⁸, Brahmā¹⁴, Śaśāńka¹⁵, Lakṣmīkânta¹⁶ and Nârada¹⁷, while *dhaivata* and *niṣāda* were discovered by Tumburū.¹⁸ (56-57b)

they may even be objective facts that are subjectively perceived; but nothing can authentically be said about it, since even the commentators do not refer to the basis for this tradition. They seem to take these things as a matter of course.

The world was divided into seven dvlpa-s according to the puranic geography which is mixed up with inythology. A dvlpa is considered to be an independent mass of land separated from the other dvlpa-s by an ocean. Thus corresponding to the seven dvlpa-s seven oceans are also conceived. These days, the concept of 'dvlpa' is taken as corresponding to that of 'continent', though in technical details it is not necessarily so. (54b-56b)

It will be observed that with respect to every note, or in other words, regarding all the seven notes, certain characteristics are described here, such as, the familyline, the colour, the continent of origin, the seer, the presiding deity, metre and the aesthetic effect. To a critical mind, this scheme is open to searching questions regarding the significance of these individual characteristics as attributed to the different notes. However, only a few general suggestions can be offered here with a view to provide a certain perspective in which the true significance of the scheme may be discovered.

- 11. Rsi-s are considered to be the seers who have an immediate perception of Truth or a fact.
- 12. That is, şadja, tşabha gandhara, madhyama and pañcama.
- ---- 13. Vahni, literally means fire and alludes to Agni, the god of fire.
 - 14. Vedhas of the text refers to the creative aspect of the Divinity, i. e. Brahma.
 - -15. Śaśāńka refers to the 'moon'.
- -16. Laksmikanta refers to Visou along with his consort Laksmi.
- 17. Narada is not only a mythological figure, but also one of the authorities in the tradition of the musical arts as mentioned in the beginning of the text (cf. S. Raj, Vol. I, p. 667 for an exhaustive note).
- 18. Tumburů is similarly another authority sanctified by musical tradition Thus Tumburů, like Nărada is a historical personality. He is described as an expert in divine music Vayupurana 69.47-49, a gandharva disciple of Nărada (Bhagavatapurana, I.13.37-59) Tumburů is obviously associated with Nărada in the Purana.

The presiding deities of *şadja* etc., respectively are Vahni, Brahmā, Sarasvati¹, Śiva²⁰, Viṣṇu²¹, Ganeśa²² and the Sun³⁸, and the metres associated with them seriation are anuştup, gāyalrī, Irstup, brhatī, paikti, usņik and jagatī. (57c-59b)

In the vedic tradition, every vedic hymn, i.e., sūkta is endowed with a seer, a presiding deity, a metre and so on; and it seems that the present characterisation of notes in the above terms is an extension of this tradition as applied to music. How far its application to music is useful, practical and valid is a question of a detailed and a deeper investigation.

Another obvious fact, as already hinted in this regard is that, all these characteristics go to raise an individual image of each note. One might well find the beginnings of the later raga imagery in the Indian music developing visual images of tonal structures expressed in line and colour in their rudiments.

'S' has observed this phenomenon from quite a different angle which is interesting and thought-provoking. He says that the allocation of the musical notes to seven different continents as the places of their origin and the association of seven seers etc. as well points out the fact that the notes were admitted to be seven only, and not nine, including, for example, the kakalt-nisada and the antara-gandhara. Thus, he raises the question, "why indeed the notes are considered to be seven as a rule ?", and suggests the following explanation : The number seven as associated with the musical notes is based probably on the concept of seven supportive tissues (spoken of in the Ayurveda) of the body such as

- 19. Terms such as Vahni and Brahmā have already been explained. Sarasvatī is conceived as the goddess of learning, art and literature in the puranic symbology.
- 20,21. Siva symbolises that aspect of the Hindu trinity which is responsible for the dissolution of the creation and Vişou is the deity responsible for the state of the being in creation, i. e. sthiti (sustenance).
- 22. Ganesa, in the puranic mythology, is the son of Lord Siva and a god to be propitiated at the commencement of every religious rite, ceremony or any new social or economic undertaking.
- 23. The Sun, though grammatically correct, is yet a misleading expression, for the presiding deity called Sun, is not inert like the sun, but is the essence of the consciousness embodied by it

The following notes (24-31) are prepared on the basis of the glossary of technical words, appended to Ravi Shankar's "My Music My Life". Sadja and rsabha are employed in the expression of heroism²⁴, wonder²⁵ and wrath²⁶; similarly, *dhaivata* is used for abhorrence²⁷ and terror³⁸, gāndhāra and nisāda for

skin, blood, flesh, etc., or on the concept of the seven psycho-physical centres in the body, or as related to the seven continents. Kakalt-nisada and antara-gandhara are not taken as notes independently as they are not used as the dominant (tonic) notes. This is supported by a quotation from Dattila to this effect (cf verses 16 and 17).

It is notable that while all other r_si -s from Vahni to Nārada are more or less mythological, perhaps with the exception of Nārada who is semi-historical, Tumburū is a historical personality and a gandharva i.e., a musician. He is said to have discovered dhaivata and nisāda (cf. a discussion on the concept of gāndharva by Sadagopan-Prem Lata-Brahaspati in the Indian Music Journal, Oct.-Nov. 1967), where it is said by Brahaspati that dhaivata was discovered by him as an overtone of madhyama. It seems that the discovery of dhaivata and nisāda attributed to him is historical (56c-57)

The concept of *devale* or the presiding deity is once again vedic in origin. It symbolises in concrete terms the abstract idea of a certain classification of human consciousness of that particular age, which was partly functional and objective in its comprehension of the creation and partly subjective, being conditioned by the time-space of the age. For example, the group of sun-gods headed by *Savitt* symbolise not only the sun, but in fact the brilliance that characterises the sun and the stars alike. Thus the discovery of the modern astronomy that the stars are as many and more or less powerful suns. is no revelation to those who are acquainted with the vedic symbolism. The Vedas have comprehended the truth of it in their own terms.

It is difficult to relate the application and the extension of this symbolism to the musical notes, as it has already been said, but if any significance has to be discovered, vedic symbolism must provide the key.

- 24. Vira is expressive of dignity, majesty and glory, courage and heroism.
- 25. Adbhuta is expressive of wonderment, amazement, surprise, exhilaration, and also the mixed feelings of anticipation.
- 26. Raudra depicts anger or excited fury.
- 27. Bibhatsa conveys the sentiment of hate, hostility and disgust which is usually made explicit in dramas.
- 28. Bhayanaka represents the sensation of fear, fright and awe. However, it is difficult to express this in music or a soloinstrument.

pathos²⁹, and madhyama and pañcama for mirth⁸⁰ and conjugal love.⁸¹ (59c-60b)

Similarly, the particular metres that have been associated with the notes are also vedic with the exception of anusiup which was introduced into the classical Sanskrit as well. This confirms the view that this characterisation of the tones is a form of the extension of vedic symbolism in the field of musical arts. In this context the value of its application to music needs to be assessed for proper appreciation and understanding.

In this respect 'S' informs that these particulars are used in the worship of the tones when fadja etc., are invoked by the seed-syllables spoken of by Mataliga. In this invocation specially the seer (r_fi), the presiding deity (i. e. devata) and the metre are utilised. 'S' gives a long quotation from Mataliga, referring to the seed syllables of notes, which need not be reproduced here. This reflects the influence of Tantra on the already existing tradition of vedic origin. (57c-59b)

It is said that music is a universal language : perhaps it is so because it gives expression to the content of the heart without interference of thought, and therefore, appeals directly to the heart. Music, as understood in the context of sangita was primarily considered to be an accessory art to dramatics and therefore, specific compositions such as particular grama-raga-s etc., were employed in the depiction of particular sentiments, such as heroisin, conjugal love, pathos and so on. Thus the theory of rasa or aesthetic delight propounded for explaining the phenomenon of literary and dramatical enjoyment was later applied to music, even while it was taken to be an art by itself. That is how various raga-s are associated with various states of mind leading to the enjoyment of various emotions. In this background the capacity of different tones for producing or arousing particular mental states is further analysed here.

This analysis of the character of tones with reference to their capacity to express more effectively particular sentiments seems not \uparrow only to be historical and traditional, but also objective and scientific in

principle. Cf. Bharata XIX. 38, 39 (K. ed.) as the basis for Sarugadeva to associate particular notes with particular rasa-s. However, svara in this context refers to the tonic i. e., the first tone of the mürcchana and implies the mürcchana based on it. So in fact the rasa or the aesthetic delight associated with a particular tone is capable of being produced not by an isolated tone but by the mürcchana commenced by that tone. This view is supported by the implication of Bharata in the context of rasa as associated with jatis (N. S. XXIX. 12 K. ed.)

Rasa is generally rendered as aesthetic delight, but that does not elucidate the concept adequately. Rasa is that delight which is distinguished from pleasure, from sensation and sensual enjoyment in so far as it is to be derived from a state of mind free from the limitations of personal likes and dislikes. Rasa is the delight of a consciousness in which emotion is experienced as a universal affection. Rasa is not only contemplation but also a direct experience of beauty and love. The concept of rasa is well elucidated as 'brahmananda-sahodara', that is, 'delight approximating to universal love'.

The association of *rasa* or an aesthetic mode with the individual notes may not be directly an extension of the vedic tradition, but certainly the concept is derived from *m)rga-sangtla* i. e., ancient music, and is therefore, an indirect extension of the vedic tradition. It is worthwhile to remember that the Sama veda is, according to some, the source of musical arts.

Another point workhy of notice is that, quite in keeping with the tradition of dramaturgy, only eight of the nine rasa-s of the literary theory have been admitted as the basic aesthetic moods in music. Santa i e., 'serenity' is excluded as being impracticable for the purposes of demonstration. (59c-60b)

^{29.} Karuna is sad, pathetic, tragic and expresses loneliness, longing and yearning for the absent lover or God.

^{30.} Hasya is humorous and comic, happy and joyful and producing laughter.

^{31.} Śr*hgāra* represents the universal creative force and embodies romantic and erotic feelings, of love between man and woman, the longing for the absent lover, and sensitivity to the beauty of nature.

त्रथ चतुर्थं ग्राममुर्च्छनाक्रमतानप्रकरणम्

क. ग्रामः

(i) ग्रामलत्त्रणम् ग्रामः स्वरसमूहः स्यान्मूच्छंनाऽऽदेः समाथयः ।

Section 4

Grāma, Mūrcchanā, Krama and Tāna

A. Grāma : 1-8

(i) The definition of grāma : lab

 $Grama^{1}$ is a group of tones that forms the basis of $m\bar{u}rcchan\bar{a}^{2}$ etc. (lab)

The individual identity of the tones has been established and demonstrated in the previous Section. But, taken individually, the tones do not have any utility, obvious or hidden. So, in order to be effective the tones are organised and presented in a systematic form; and therefore, the author now comes to deal with the basic pattern of tonal organisation and the system of formal presentation related to it. In this Section he deals with <u>grama which</u> forms the basis of tonal organisation of the system of formal presentation consisting of such concepts as murcchana, the murcchana-series (*trama*) and the note-series (*tana*) which constitute the important features of ancient Indian music. These concepts will be elaborated in their proper context, but for the present we are concerned with the term 'grama'

The word grama in Sanskrit means a village; but a village in ancient times, and even today was and is more or less a community by itself. So, when the word grama is adapted in musical parlance, it denotes, not mercly a collection of musical notes, but a group of notes

- 1. Grama may be understood roughly as a basic scale, but for the sake of accuracy it has not been translated into English.
- 2. Marcchand, though not translated in this work, like grama, may otherwise briefly be understood as modified gramic prototype scale.

of relative tonal value organised into an integrated whole comprehending within its fold the span of a saptaka (heptad), a scale of seven notes which serves as the basis for musical compositions.

'K' elucidates that as in every-day life grāma refers to a group of people, so in musicology grāma refers to a group of svara-s; but, as the word svara refers to the linguistic vowels (vedic and classical) as well as the musical notes, this definition would be too wide. Also in the ordinary connotation of 'svara' is included the threefold vedic accent, viz, udatta, anudatta and svarita. It is in order to preclude such an interpretation as it were that grāma is stated to be such a group of svara-s which forms the basis of mürcchanā etc. By etc., the author implies mürcchanā-series, note-series (tāna), ornamentation (alamkāra), graces (gamaka) and the archetypes (jāti) of musical compositions such as grāma-rāga-s and so on.

'S' also offers the same elucidation but with an alternative : probably, as he apprehends, one may not understand the order of tonal value, say in terms of the pitch involved in the grama, if it is merely taken to be a group of tones. Therefore, this general statement is conditioned in so far as the group of notes has to be so organised, the tones have to be so related to each other, as to serve as the basis for murchana etc.

'S' is obviously inspired in this view by the Sanglta-samaya-sāra, from which he quotes as under :

"Grama is a group of notes having ordered struti-s and constituting mürcehana, jati and amsa."

The emphasis is on the order inherent in the arrangement of the *struti-s*, and therefore the *svara-s*. It is this order in the tonal value of the notes which distinguishes it from an indistinct jumble of sounds. Actually this point is implied in the text as one can clearly see it, though 'K' has emphasised one aspect of it and 'S' has stressed the other. Kumbha's definition of grama seems to be the most appropriate :

In When the svara-s in consonance, having sruti-s in due order, serve as the basis of murchana etc., they are said to constitute a grama". (S. Raj. I. 2. 3. 9-10)

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That the tones of the grama should be so related as to be in consonance with each other, makes this definition more explicit, clear and precise. Also, this definition gives due importance to *sruli-s* apart from the *svara-s*.

M. S. Ramaswami Aiyar in his paper entitled, "The Question of Grāma-s" (pub. J. R. A. S., 1936, p. 632) explains grāma in these words:

Qu

Treatment of Svara

(ii) द्वौ ग्रामौ (धरातले)

तौ द्वौ धरातले तत्र स्यात्षड्जग्राम आदिमः ।।१।। द्वितीयो मध्यमग्रामस्तयोर्लक्षणमुच्यते ।

(ii) The two grāma-s: 1c-2b

Two grāma-s are prevalent in this world¹, the first is sadja-grāma and the second is madhyama-grāma; they are defined in the following terms. (1c-2b)

"A grāma was an unsingable group scale, so to speak, consisting of *suddhavikţta svara-s* collected together and preserved, as such, for the purpose of selecting, from that group scale, any desired set of seven notes with a graha or srarting point which set, when sung in the natural order of ascent and descent was called *mürcchanā* and which, when a harmonic individuality was established with the help of *ainša*, *nyasa*, *vādī* and *sainvādī* etc., took the name of *jati⁸*." Thus, it would seem that the concept of grāma is deeply involved in other concepts of the grāma-mürcchanā system; and would therefore become more and more clear as we go on comprehending them all as a part and parcel of a single scheme.

Grama has been defined primarily to be a group of tones: therefore, the question is, why not have seven grama-s, one by the name of each tone?, and why only two viz., sadja-grama and madhyama-grama? 'K' suggests that since the tones are employed in two forms viz., the standard or unmodified and the modified, there are only two grama-s each to serve as the basis for the former and the latter i.e., the sadjagrama for the standard tones and the madhyama-grama for the modified tones. However relevant this explanation may be, it can hardly be said to be adequate; there are many other factors of musical practice that make any other grama impracticable, e.g., the principle that the tones of a grama should be in consonance with each other, implies that the consonant tones have to be of the same strati-measure : and this implication cannot probably be realised elsewhere as accurately as in the sadja and the madhyama-grama-s.

- 3. As quoted by Nijenhuis in her Dattilam, p. 104.
- 1. Dhardtale, literally means, 'on the face of the earth', i.e., in the mortal world, for gandhara grama is said to be prevalent in the heaven or among the gods.

(iii) षड्जमध्यमग्रामयोर्लचणम् षड्जग्रामः पञ्चमे स्वचतुर्थश्रुतिसंस्थिते ।।२।। स्वोपान्त्यश्र तिसंस्थेऽस्मिन्मध्यमग्राम इष्यते ।

(iii) The definition of the sadja-grāma and the madhyamagrāma: 2c-3b

Paācama, if located on its¹ fourth *śruti* makes for the *şadja-grāma*; but if established on the *śruti* immediately preceding² it, makes for the *madhyama-grāma*. Alternatively³, *dhaivata* of the *şadja-grāma* is of three sruti-s; while in *madhyama-grāma* it has four *śruti-s*. (2c-3b)

The author is now suggesting the means of distinguishing the sadja-grāma from the madhyama-grāma and he says that pañcama is the crucial note for this purpose. In the sadja-grāma pañcama is located on the seventeenth sruti and consequently dhaivata has three sruti-s, but in madhyama-grāma, pañcama is located on the sixteenth sruti and consequently one of the sruti- is spared to dhaivata which sustains four sruti-s. Thus the grāma-s can be distinguished either by the position and the extent of pañcama or of dhaivata.

Incidentally, it is pointed out by 'S' that, whereas the paicama of the sadja-grāma is unmodifiable, the paicama of the madhyama-grāma is essentially a modified note. Even though there are other notes in sadja-grāma such as sadja etc, that too are constant, yet paicama presents a contrast and that is why it becomes more significant.

^{1.} Sva the use of this possessive pronoun in the terminology of Sārāgadeva is quite significant; for, it excludes the *sruti-s* gained by the tones in their modified state. The fourth *sruti* of pañcama is the seventeenth *sruti* of the scale identified by 'K' as *alapint* of the *karuņā jāti* (class).

^{2.} Soopantya-of the text literally means "its penultimate". Thus, the expression refers to the *sruti* immediately preceding the fourth *sruti* of *pañcama*, i.e., the third *sruti*, or the sixteenth of the scale, identified by 'K' as sand pant of the *dyala* class.

^{3. &#}x27;S' points out that the use of the indeclinable *u* in the text shows that the author prefers to stick to the first distinction for distinguishing the grama-s, while he mentions the other alternative on behalt' of other musicologists. Indeed the distinction of *dhaivata* is incidental to that of *pañcama*.

ダヤニキン Section 4 : Grama, Mürechanā, Krama and Lana Treatment of Svara (v) मामत्रयस्य नामस्वराणां वेंशिष्टयम (iv) गान्धारमामः यद्वा धस्त्रिश्र्ताः षड्जे मध्यमे तु चतुःश्रुतिः ।।३।। षडुजः प्रधानमाद्यत्वादमात्याधिक्यतस्तथा । स्यादविलोपित्वान्मध्यमस्तु पुरःसरः ।।६।। रिमयोः अतिमेकेकां गान्धारश्चेत्समाश्रितः । ग्रामे वश्वति घो निषादस्तु घश्वति सश्रुति श्रितः ॥४॥ एतत्कुलप्रसूतत्वाद् गन्धारोऽप्यग्रणीदिवि । गान्धारग्राममाचष्ट तदा तं नारदो मुनिः । (v) Justification for the three grāma-s: 6-7b प्रवर्तते स्वर्गलोके ग्रामोऽसौ न महीतले । । १। । Sadja is the prime tone¹, for being in the first position and also for having more ministers^a in the grāma; madhvama (iv) The gandhara-grama : 4-5 too is in the fore-front, because it cannot be omitted. Abeing If gandhara takes one sruti each from reabha and a descendant of the same family, even gandhara is the promimadhyama, dhaivata takes one sruti from pañcama, and nisāda nent note in the heaven. (6-b) takes one śruti each from dhaivata and sadja, it becomes DHAE Now, the question is why the three grama-s are named particularly gāndhāra-grāma as declared by the sage Nárada¹. This grāma after sadja, madhyama and gandhara, and not after any other notes such as is prevalent in the heaven², not in this world. (4-5) pañcama or misada and so on. The author explains that it is because sadja In the tradition of Bharata, which Matanga seems to follow, only is the most prominent tone; and that for two reasons viz., it is the fundatwo grama-s, viz., the sadja-grama and the madhyama-grama are recognised mental note and also it is in consonance with more notes than the other (cf. Br. D. 93). However Narada, of uncertain chronology, refers to a i.e., with pancama and madhyama; whereas other tones have only one third grama called gandhara-grama which, our author after Matanga consonant. declares, was meant to be used exclusively by gods and not by human Madlyama is also an important note since it cannot be omitted beings. This grama is derived by him from the sadja-grama as described while composing standard (suddha), hexatonic and pentatonic notein the text and accordingly can graphically be demonstrated as under : series (tana-s). 'K' also suggests another reason. Madhyama cannot be The three grama-s omitted because the three notes preceding it are quite in balance with the three notes succeeding it, and have a certain consonance in-between Tones with number of stuti-s Name of the grama them, but madhyama being centrally situated is isolated from that sort dha/3 ni/2pa/4 | ri/3 ga/2 (ma/4 Sadja-grama sa/4 of relationship and therefore serves as the boundary line between the ga/2 paj3 dha/4 ri/3 ni/2 sa/4 ma/4 two sets of notes, making itself in-omissible. 'S' quotes Dattila regar-Madhyama-grama ding the inomissibility of madhyama to the following effect. ri/2 pa/3 dha/3 sa/3 ga/4 ma/3ni/4 Gandhara-grama -"Pancama in the madhyama-gràma, and dhaivata in the sadja-gràma are inomissible, but however madhyama is so everywhere," (Chart II) Dhaivata takes one sruti from pancama (of the salja-grama) and Gandhara-grama is so named because it is a descendent of the same family of gods to which salja and madhyama belong and is thereby the vields one śruti to nişada, retaining in effect the same number of śruti-s. prominent note in heaven, where it is said to be prevalent. 'S' quotes 1. Narada is a very ancient name, known to Veda as the brahmarsi Matanga in support of this reasoning. and the Puranas as devarsi. He is associated with Bharata in the very first performance of drama (N. S. Kashi ed, 5.32). Bharata mentions Narada "Why indeed this particular nomenclature sadja and madhyamaas an authority on gandharva (N. S Kushi ed. 32.484). At least five per-

sonalities are discerned by the name of Narada including the authors of

Naradiya-siksa and Sangita-makaranda (cf. S. Raj, Vol. 1, pp. 667-668 for a

detailed description). In short, Narada is an ancient authority on usic. 2. The heaven in the Hindu mythology, is the abode of gods;

those who accumulate merit by good deeds, are born as gods in heaven

and as the merit earned by them is exhausted, they are again reborn as

mortals in noble families. On the other hand, the gods are considered

grama ? To explain, they have been assigned grama names because of their being extraordinary, and that is because of their being born in the family of gods." (cf. I.3.52ab ante)

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^{1.} Pradhana literally means 'the chief', in other words, the most important tone.

^{2.} The consonant tones have been referred to as ministers (cf. 3.50 ante).

(vi) द्रामाणां द्वाः

क्रमाद् ग्रामत्रये देवा ब्रह्मविष्णुमहेश्वराः ॥७॥

(vi) The presiding deities of the grāma-s : 7cd
 The presiding deity in each of the three grāmas respectively¹ is Brahmā, Vişņu and Śiva.² (7cd)

(vii) ग्रामाणां गानकालनियमः हेमन्तग्रीष्मवर्षासु गातव्यास्ते यथाक्रमम् । पूर्वाह्लकाले मध्याह्ने ऽपराह्ले ऽम्युदयार्थिभिः ।।८।।

(vii) The periods of time as related to the grāma-s: 8

They¹ are to be sung by those who are desirous of prosperity in the forenoon², mid-day and in the afternoon, in the winter, summer and in the rainy season respectively. (8)

The expression "gatavydste" is quite significant and also thoughtprovoking. The pronoun 'they' (tc) obviously stands for the three grama-s; and therefore two interesting questions arise in this particular context: (i) are the grama-s meant to be sung? (ii) Is singing to be restricted to winter in case of the sadja grama, to summer in case of the madhyama-grama and to rainy season in case of the gandhara-grama? and if so, the gandhara-grama cannot be used on earth as it is prevalent in the heaven only; then how should one sing in the rainy season? Moreover, the grama-wise distribution of the day into three parts presents another problem on the same lines.

The grama-s, it is generally held, were not meant to be sung; but what is probably collectively referred to in the text by way of grama, is the various types of melodic patterns or musical forms set in the pattern of the particular grama-s, such as jati-s and raga-s. It is interesting to find 'S' quoting Matauga with reference to the function of grama

- 1. That is, in the sadja, madhyama and gandhara-grama, in respective order.
- 2. The appellation Mahesvara (Maha+Isvara-the great God) is used in the text.
- 1. That is, the three grama-s.
- 2. Parvaahue, literally means 'in the anterior period' with reference to the middle period of the day, i. e., the mid-day. Thus, we can also divide as forenoon, noon and afternoon.

Thus, the expression 'they are to be sung', refers not merely to the basic scales of the grama-s, but all those melodic structures or musical forms that are set into their basic pattern.

Accordingly, the text is suggestive of another function of the three grama-s viz., their individual suitability to a particular season. The traditional six Indian seasons have been compressed into three for functional purposes; and on this basis one is led to infer that even gandhara-grama might have been prevalent sometimes in the forgotten past. All that the text implies is that the three grama-s are more suitable for the three respective seasons and the divisions for the day, but not that they are exclusively to be employed on restricted basis.

ख. मूच्छेनाः क्रमाश्च (i) मूच्छेनालक्षणम् कमात्स्वराणां सप्तानामारोहश्चावरोहणम् । मूर्च्छनेत्युच्यते ग्रामद्वये ताः सप्त सप्त च ।।९।।

The marcchana-s and krama-s : 9-26b.

(i) The definition of marcchana: 9

The ascending and the descending movement of the seven notes in successive order is called *murchana*. There¹ - are seven *murchana-s* in each of the two² grāma-s. (9)

The concept of *mūrchhanā* is quite important in this system of music, and should therefore be understood quite adequately.

The word 'murcchana' is derived by Matanga from the Sanskrit root murcch-to faint or to increase. Thus he defined murcchana as: "murcchyate yend rago hi murcchana-ilyabhisanijnita" i.e., "That by which the raga-develops is called murcchana." Basically it is the movement, ascending as well as descending of the seven notes which is called murcchana in the text. However, 'S' quoting Matanga in his support

I. That is, in this world excluding heaven.

^{2.} That is, the sadja-grama and the mudhyuma- grama.

makes it clear that it is in fact the seven notes arranged in regular order of ascent and descent which stand to be called as *mūrcchanā* i.e., in other words, the action of ascent and descent, that is, the tonal movement is not to be called *mūrcchanā*, as it is said by Mataúga:

"The unit of seven notes in regular order of ascent and descent is known to be the referent of the word *mūrcehanā* by the experts of the subject."

Obviously a very subtle distinction has been made; for indeed, it is the seven notes in the ascending or the descending movement in their successive order that constitute mūrcchanā. The movement is quite inherent in the tones if they are to form a mūrcchanā. Thus, the distinction is rather formal and may be construed as helpful in placing the emphasis rightly on the tones, rather than on their movement. Ravi Shankar defines mūrcchanā as, "scale-wise progressions in descending, motion from the fundamental notes." (cf. Glossary of Technical Words 'My Music, My Life').

The function of murchana is to develop, to enlarge and to spread the raga. Obviously, it is not possible to restrict the arrangement of murchana-s to any one register, and as pointed out by 'K' in order to show their range to be co-extensive with the three registers, Matanga, speaks of murchana-s of twelve notes as well, but this seems unnecessary in view of the two grama-s being used conjointly, covering the three registers. Kumbha mentions Kohala and Nandikesvara as supporting Matanga in his view, but he totally rejects it by himself as technically uncalled for (cf. S. Raj. 2.1.1. 352-357).

Thus it is settled, as per the text that there are seven murchand-s in each grama.

(ii) षड्जमध्यमग्रामस्थमूर्च्छनानां संज्ञाः बड्जे तूत्तरमन्द्रा ऽऽदौ रजनी चोत्तरायता। शुद्धषड्जा मत्सरीकृदश्वक्रान्ता ऽभिरुद्गता॥१०॥ मध्यमे स्यात्तु सौवीरी हारिणाश्वा ततः परम् । स्यात्कलोपनता शुद्धमध्या मार्गी च पौरवी॥११॥ हृष्यकेति,

(ii) The names of the murchanā-s of the şadja and madhyamagrāma-s : 10-12a

The first in sadja-grāma is uttaramandrā which is followed

abhirudgatā. Madhyama-grāma has sauvīrī, hāriņāsvā, kalopanatā, suddhamadhyā, mārgī, pauravī and hṛşyakā. (10-12a)

The names of these fourteen murchand seem to be quite significant and some scholars have even ventured to speculate regarding their literal signification as related to their musical content and aesthetic effect; for example, the name of the first murchand of the sadja-grama attaramandra, literally means, "the one that follows the mandra i. e., the lower (heptad)" and this exactly tallies with its tonal position, since it commences with the sadja of the middle heptad.

Now, the question (as raised by 'K') is, 'Why should the murchanas of the sadja-grāma begin with the salja of the middle register?' i. e., why not with some other note of, say, the lower register? And 'K' explains, "that is so, because Bharata has ordained it that way," quoting him, "murchanā should be demonstrated on vinā with the tone madhyama (madhyama svareņa vaiņavena murchanā-nirdešaḥ)". And then 'K' goes on to quote Mataŭga in his interpretation of Bharata : "Murchanā should commence with the middle register in order to establish the lower and the higher registers (madhya-saptakena murchanā-nirdešaḥ kāryo mandratārasidhyartham)."

As far as the literal meaning is concerned, Bharata has spoken of madhyama as the tone and not of madhya saptaka. However, Bharata also lays down uttaramandrā as the first mūrcchanā, "ādya-hyuttaramandrā syād etc." (cf. N. S. Ka. ed. XXVIII. 27). So in fact Śārigadeva follows the tradition of Bharata and Mataiga. Mataiga however, seems to have correctly elucidated Bharata, why uttaramandrā is taken as the first mūrcchanā.

(iii) मूर्च्छनानामारम्भकस्वराः

, अथ तासां तु लक्षणं प्रतिपाद्यते । मध्यस्थानस्थषड्जेन मूर्च्छना ऽऽरभ्यते ऽग्रिमा ।।१२।।

(iii) The tonal form of the murchana-s: 12b-15

Their distinguishing character¹ is (now) being outlined.² The first mūrcchanā is commenced with the sadja of

'S' reproduces the murchand-s (in the ascending form) of the two grama-s in accordance with the text as under:

- 1. Laksana, literally means a characteristic mark.
- 2. Lit. 'established' by demonstration.

अधस्तनैनिषादाद्यैः षडन्या मूर्च्छनाः क्रमात् । मध्यमध्यममारभ्य सौवीरी मूर्च्छना भवेत् ॥१३॥ षडन्यास्तदघोऽघःस्थस्वरानारम्य तु क्रमात् । षड्जस्थानस्थितैर्न्याद्ये रजन्याद्याः परे विदुः ॥१४॥ हारिणाश्वादिका गाद्यैर्मध्यमस्थानसंस्थितंः । षड्जादीन्मध्यमादींश्च तदूर्ध्वं सारयेत्क्रमात् ॥१४॥

the middle register; and the six other $m\bar{u}rchan\bar{a}$ -s with $nis\bar{a}da$ etc. (placed) one below another in regular order. Sauvirī commences with the madhyama of the middle register, and the six others³ with the notes coming one below another in successive order. (12b-14b)

According to another version, rajant etc.⁴ are formed by nisada etc.⁵ that are placed on $sadja^6$ and harinasva etc.⁷

	ş	adja-grāma	Madhyama-grama					
No.	Name	Tonal form	No	. Name	Tonal form			
1.	Uttara- mandrā	sa ri ga ma pa dha ni	1.	Sauviri	ma pa dha ni sa ri ga			
2.	Rajant	ni sa ri ga ma pa dha	2.	Harinasv	d ga ma p <mark>a dha ni sa ri</mark>			
3.	Uttaraya	ta dha ni sa ri ga ma pa	3.	Kalopanat	a ri ga ma pa dha ni sa			
	Śuddha- sadja	pa dha ni sa ri ga ma	4.		sa ri ga ma pa dha ni			
5.	Matsari- kįtā	ma pa dha ni sa ri ga	5.	Margio	ni sa ri ga ma pa dha			
6.	Asvakran	ua ga ma pa dha ni sa ri	6.	Pauravia	dha ni sa ri ga ma pa			
		ata ri ga ma pa dha ni sa			- •			

Murcchand-s of the two grama-s

(Chart 12)

• The tonal form of *suddha-madhya*, margi, pauravi and hisyaka may appear to be identical with that of uttaramandra, rajani, uttarayata and *suddha-sadja* respectively, due to the same tones employed; but

3, That is, other mircchana-s.

- 4. That is, from ranjant, uttarayata etc. onwards up to abhirudgata.
- 5. That is, ni dha pa backwards upto ri.
- 6. Sadja of the middle register.
- 7. That is, from harinales, kalopanata onwards upto hisyaka.

are formed by gandhara etc.⁶ that are placed on madhyama; the subsequent notes sadja etc.⁹ and madhyama etc.¹⁰ respectively may be tuned accordingly. (14c-15)

actually it is not so, because the pañcama of the madhyama-grāma is of three *stuti-s*, whereas in the *sadja-grāma* it has four; therefore, these murchand-s, though similar in appearance, are yet different in content. Signs \cdot and $\frac{1}{2}$ (not used here) are respectively indicative of the lower and the higher register. (12b-14b)

Then the author describes the same phenomenon of the formation of murchand-s in quite a different way. The phenomenon remains the same, only the technique of relating it differs.

As already explained in the previous verse, by the first method the murchana-s are formed by placing their initial notes one below the other. This involves a change of range (sthana) in the same vina which has to be mattakokila, that is provided with 21 strings and has the range of three registers (cf. Ab. Bh., G. O. S. Vol. IV, p. 122). By this method the murchana-s can be worked out as under, either in the range of the lower and the middle registers, or the middle or the higher registers. While in the second method explained above, the murchana-s are obtained in the same register, but every time the strings have to be tuned accordingly. Chart 13 (a & b) illustrates the first method and Chart 13 (c) illustrates the second.

Formation of mürschanā-s of the salja-grama

Method I (a)

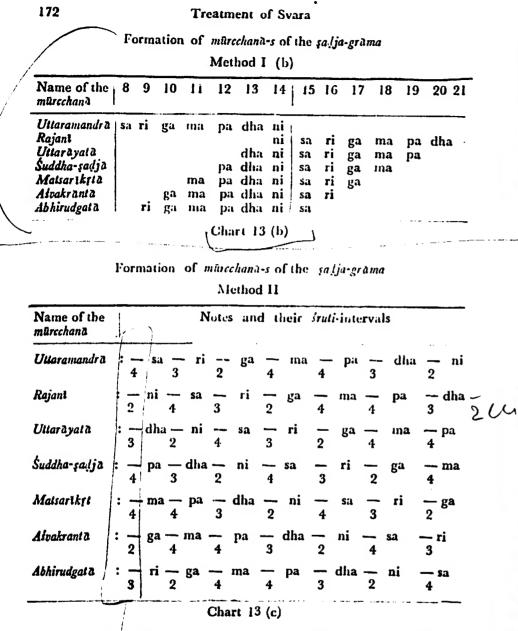
Name of the 1 mürcchand	2	3	4	5	6	7	8	9	10	11	12	13	14
Uttaramandrā Rajanī Uttarāyatā Suddha-şaļjā Matsarīkţi Aizakrāniā Abhirudgatā	ri	ga ga	ina ina ma	pa pa	dha dha dha dha dha	ni ni ni ni	sa sa sa sa	ri ri ri ri	ga ga	ina ma ma ma	pa pa pa	dha dha	ni

Chart 13 (a)

8. That is, from ga ri backwards upto pa.

9. That is, sadja and the higher notes.

10. That is, madhyama and the higher notes.



These illustrations clearly make out the difference between the two methods of *murcchana*-formation. The one (I) involves change of range and therefore requires the *mattukokila* vina and the other is done in the same register and involves tuning of the vina according to the *murcchana-s*. (14c-15)

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Section 4 : Grāma, Murcchana, Krama and Laua

(iv) मूर्च्छना-भेदाः

चतुर्धा ताः पृथक् शुद्धाः काकलीकलितास्तथा । सान्तरास्तद्द्वयोपेताः षट्पञ्चाशदितीरिताः ॥१६॥ श्रुतिद्वयं चेत्षड्जस्य निषादः संश्रयेत्तवा । स काकली, मध्यमस्य गान्धारस्त्वन्तरः स्वरः ॥१७॥

(iv) The classification of the mūrcchanā-s : 16-17

These are fourfold, viz. suddhā¹ (standard), kākalī-inclusive², antaia-inclusive³ and inclusive of both⁴; thus, they are

The mürcchanā-s are classified on the basis of their being inclusive or exclusive of either of the two notes called kākali and antara or both of them. First of all the author defines these two terms. He says, if nişāda absorbs two śruli-s of şadja and is thus established on the 24th (22+2) or the 2nd śruli (of the next register), being in effect constituted of four śruli-s, then it is called kākali nişāda and also merely as kākali for the sake of convenience. Similarly, if gāndhāra incorporates two śruli-s of madhyama and is thereafter established on the 2nd śruli of madhyama, being constituted in effect of four śrali-s, then it is called antara-gandhāra or merely as antara for the sake of convenience. Both these notes are considered to be the modified forms of nighda and gāndhāra respectively and are not counted as independent notes by themselves.

Now, he says there are four classes of *murchana-s*, viz. (i) those that are composed exclusively of the standard notes, i. e. the *suddha-svara-s*, (ii) those incorporating *kakalt-nisāda*, (iii) those incorporating

- 1. Suddha literally means pure or natural, the term is suggestive of the fact that the mūrcchanā-s of this type are composed of tones in the standard *sruti*-relation i. e., 4-3-2-4-4-3-2 or 4-7-9-13-17-20-22.
- Kakali-inclusive is the one that takes kakali-nişada instead of suddha-nişada, the sruti-relation being 4-7-9-13-17-20-2 (i. e. 24) taking 2 sruti-s from the sa of the next register.
- 3. Antara inclusive is that which takes antara-gandhara instead of suddha-gandhara, the sruti-relation being 4-7-11-13-17-20-22.
- 4. The fourth type is such that it takes antara-gandhara and kakali nisada instead of suddha ga and ni; the sruti-relation being 4-7-11-13-17-20-2 (i c. 24).

However, the *sruti* relations indicated here pertain to the *sadja*.grama; in *madyama*.grama *pa* will be on the 16th *sruti* finstead of the 17th.

known to be fiftysix in all. If nisāda takes two śruti-s of sadja, it becomes kākalī⁵, but if gāndhāra appropriates two śruti-s of madhyama it becomes antara.⁶ (16-17)

antara gandhara and (iv) those incorporating both kakalt and antara. Each of the two grama-s has seven murchana-s, so both have fourteen; and then, each of the fourteen is of four types described above. Thus $(14 \times 4=56)$, altogether we get fiftysix murchana-s. The four types of the murchana-s of the sadja-grama are illustrated as under, along with their sruti-relations.

		Ţ	< -	our ly	pes of	mûrce	chana-	s N 1	
T	Name of the type	sa	ri	ل _	h ma	pa	dha	2-h- ni	Remarks
Ð	1. Śuddh a (standard)	4	7	9	13	17	20	22	
	2 Sakākali (kākali-inclusive)	4	7	9	13	17	20	•2 or 24	•2 <i>sruti-s</i> from the next register
	3. Sāntarā (antarā-inclusive)	4	7	11	13	17	20	22	··· ·· · · · · · · · ·
	4. Ubhayagata (inclusive of both)	4	7	11	13	17	20	* 2 or 24	• do

(Chart 14)

This illustrates the varieties of the first murchana only.

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- 5. The short form of kākalī-nişāda.
- 6. The short form of antara gandhara.

(v) मृच्छ्रनासङ्ख्या-परिज्ञातोपायः यस्यां यावतिथौ षड्जमध्यमौ ग्रामयोः क्रमात् । मूर्च्छना तावतिथ्येव सा निःशङ्क्षेन कीर्तिता ॥१८॥

(v) The method of indicating the serial number of a mūrcchanā : 18

In the two grāma-s the serial number of a mūrcchanā, as pointed out by Sārngadeva¹, is that which corresponds to the position of sadja or madhyama in it². (18)

This is rather a very faithful rendering of the text which in fact implies that, since there are fourteen murchana-s in the two grama-s, seven in each, the question is how to recognise a particular murchana in terms of its being first, second, third, and so on. The author here points out that the serial number of a murchana is indicated by the position of sa!ja or madhyama in it in the sa!ja or madhyama grama as the case may be. For instance, in uttaramandra a murchana of the sa!jagrama 'sa ri ga ma pa dha ni' the position of the sa is first, and therefore it indicates that uttaramandra is the first murchana of the sa!ja-grama. Similarly sa!ja being the sixth note in a 'vakranta. it indicates it to be the sixth murchana. Also in the case of madhyama-grama, hariyasba for instance has muthyama in the second position (ga ma pa dha ni sa ri) and is thereby the second murchana of the madhyama-grama.

(vi) म्च्छना-क्रमाः, तेषां सङ्ख्या च प्रथमादिस्वरारम्भादेकंका सप्तधा भवेत्। तासूच्चार्यान्त्यस्वरांस्तान्पूर्वानुच्चारयेत्क्रमात् ॥१९॥ ते क्रमास्तेषु संख्या स्याद् द्वानवत्या शतत्रयम् ।

(vi) The mūrcchanā-series (krama-s) and their number:19-20b.

Each one of them¹ becomes sevenfold by commencing with the first note and so on³. In these³, the last notes having been sung, initial notes may be sung in their respective

- 1. Nihlanka is the appelation of Sarngadeva.
- 2, Cf. Dattilam 21.
- 1. 'Them' refers to the fiftysix murchana-s of four types described in verse 16.
- 2. That is, from the first to the seventh note.
- 3.&4. 'These' refers to the seven murchand-series, formed as per

order. These⁴ are murchanā-series (krama-s) and their number is three hundred and ninetytwo. (19-20b).

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Phxh

56

The purport is that each one of the fiftysix murchand-s spoken of above, has seven series of murchana-s of its own which are formed by commencing the murcchana with the first, the second, the third, the fourth, the fifth, the sixth and the seventh note, keeping the futi-value of the notes unaltered. Now, 'S' poses the problem that, if the marcchana is commenced with the second note and so on, how can it have seven notes in it ? The text resolves the difficulty by suggesting that the last notes may be sung in the first instance and the preceding notes may be sung in their respective order. Moreover, it is notable that in this scheme the basic scale is not altered and so the murchana does not change, what changes is the order of notes in it, and actually each murchand has seven possibilities of such a variety in the order. These series are therefore called kiama-s, literally 'orders'; they are useful in the computation of kutatuna-s (permutational note-series). The series of murchana-s are therefore sub-varieties of the murchana-s and are distinguished from the marchana-s proper by the fact that they are formed only in the ascending order of notes, whereas the murchana-s are formed in the descending order as well. For instance uttaramandra, the first mutchana, of the salja-grama is sa ri ga ma pa dha ni : ni dha pa ma ga ri sa; but the series of this murchant are recorded as follows :-

		8	9	10	11	12	13	14
lst series	:	sa	гі	ga	ma	pa	dha	ni
		14	8	9	10	11	12	13
2nd series	:	ni	sa	ri	ga	ma	pa	dha
		13	14	8	9	10	11	12
3rd series	:	dha	ni	sa	ri	ga	ma	pa
		12	13	14	8	9	10	11
4th series	:	ра	dha	ni	sa	ri	ga	ma
		11	12	13	14	8	à	10
5th series	:	ma	pa	dha	ni	sa	ri	ga
		10	11	12	13	14	8	9
6th series	:	ga	ma	ра	dha	ni	sa	ri
		9	10	11	12	13	14	8
7th series	:	ri	ga	ma	pa	dha	ni	sa

(Chart 15, adopted from K.R. with modification)

this verse; they may be understood as subvarieties of the seven *mürcchana-s*, called *krama-s* in the text. The word *krama* is used in the sense of series in this particular context.

These series of tonal order do not stand in the descending order and are therefore called *krama-s* or *mūrcchanā-krama-s*—i.e., mūrcchanā-series. Since each of the fiftysix *mūrcchanā-s* has seven series, the total number of such sub-varieties comes to $(56 \times 7 = 392)$ three hundred and ninetytwo.

These krama-s, named as murchand-series are considered to be murchand-s only in so far as the notes in their ascending order are placed consecutively and exhibit some sort of order in their arrangement.

Matanga, following Bharata, classifies the seven-tonal mitrchana-s in slightly a different way, viz. parna (complete), sadavita (hexatonic), auduvitā (pentatonic) and sadhāranī (mixed), the first one of which incorporates all the seven notes, the second is composed of six notes, the third is formed with five notes only, while the fourth includes kākalt or/and antara forms of nisāda and gandhāra.

Bharata has defined murchana as a group of seven notes placed in order, and he derives murchana-tana-s (also called only tand) from them by the omission of one or two notes (cf. N. S., G. O. S. IV. 32-33, p. 25). Savigadeva too, basically follows this classification but technically he applies the term tana to all those modifications of murchana-s that are formed by the omission of one to six notes in the combinational and permutational note-series (suddha and ku_{12} tana-s).

(vii) मृर्च्छनानां देवताः	
यक्षरक्षोनारदाब्जभवनागाश्विपाशिनः	112011
षड्जग्रामे मूर्च्छनानामेताः स्युदॅवताः क्रमात्	L
ब्रह्मेन्द्रवायुगन्धर्वसिद्धद्रुहिणभानवः	แรงแ
स्युरिमा मध्यमग्राममूर्च्छनादेवताः क्रमात्	I.

(vii) The presiding deities of the marcchana-s : 20c-22b

The presiding deities of the mūrcchanā-s of the şadjagrāma respectively¹ are yakşa², rakşa³, Nārada⁴, Brahmā⁵,

- 1. That is, from the first murchana-series to the seventh series.
- 2. Yakşa is a class of demigods who are considered to be the guards of the treasures of Kubera, the god of wealth.
- 3. Rakşa is the name given to evil spirits 'K. R.' in his note on verse 20 considers rakşa-s along with yakşa-s to be semicelestial beings. He does not elaborate on their function.
- 4. Narada is a celestial figure, a sage elevated to be a divine roaming minstrel of the three worlds (i.e. the heaven being the abode of gods, the earth being the abode of mortals and the under world below the earth, being the abode of naga-s or reptiles).
- 5. The creative aspect of the Hindu trinity.
 - 12

Section 4 : Grāma, Mürcchanā, Krama and Tāna 179

Treatment of Svara

nāga, asvin⁷ and Varuņa⁸; and those of the madhyama-grāma respectively are Brahmā, Indra⁹, Vāyu¹⁰, gandharva,¹¹ siddha¹² Siva and sun.¹⁸ (20c-22b)

(viii) नारदकथितानि मूर्च्छना-नामानि तासामन्यानि नामानि नारदो मुनिरब्रवीत् ॥२२॥ मुर्च्छनोत्तरवर्णा ऽऽद्या षड्जग्रामे ऽभिरुद्गता । अश्वक्रान्ता च सौवीरी हृष्यका चोत्तरायता ।।२३।। रजनीति समाख्याता ऋषीणां सप्त मूर्च्छनाः । आप्यायनी विश्वकृता चन्द्रा हेमा कर्पादनी ॥२४॥ मैत्री चान्द्रमसी पित्र्या मध्यमे मूर्च्छना इमाः । नन्दा विशाला सुमुखो चित्रा चित्रवतो सुखा ॥२५॥ आलापा चेति गान्धारग्रामे स्युः सप्त मूर्च्छनाः । ताश्च स्वर्गे प्रयोक्तव्या विशेषात्तेन नोदिताः ॥२६॥

(viii) Nārada's nomenclature for the mūrcchanā-s: 22c-26

The sage Nārada has given¹ another nomenclature for them² viz. the first in the sadja-grāma is uttara-varņā and then⁸ abhirudgatā, asvakrāntā, sauvīrī, hrsyakā, uttarāyatā and

Narada is a celebrated authority of ancient India and this subject is dealt with in two works ascribed to him, viz. Naradlya-siksa and Sangita-makaranda. The nomenclature ascribed to Narada in the text tallies more or less with the one given in Naradtya-siksa, but is slightly different from that of Sangua-makaranda (cf. N. Śiksa 1.2.9-14

- 6. Naga, a class of beings inhabiting the world below the earth, who are likened to serpents.
- 7. Asoins are the twin brothers, the sons of the sun and the physicians of the gods.
- 8. A god of the vedic pantheon and puranic mythology.
- 9. The chief of the gods.
- 10. The god of wind.
- Ceiestial chorister, a singer in general.
- A class of demi-gods with supernatural powers, or a perfected 11.
- 12. human being.
- 1. Literally, it would be translated as 'said'.
- 'Them' refers to the seven murchand-s of each of the grama-s. 2.
- 3. The sense of 'then' is implied in the context.

rajani; these are the seven murchand-s of the seers. In the madhyama-grāma the mūrcchanā-s are: āpyāyanī, visvakrtā, candrā, hemā, kapardinī, maitrī and cāndramasī belonging to the manes. Nandā, visālā, sumukhī, citrā, citravatī, sukhā and ālāpā are the seven murchand-s of gandhara-grama; but they have not been spoken of in detail as they are to be employed in heaven only. (22c-26)

and S. Mak. 1.2.10-15). However, it is notable that the name uttaravarna given to the very first murchana of the sadja-grama is not found in both of them ; and what is found in its place is ultara-mandra. Besides, there are a few other minor variations. That shows that Sardgadeva probably had access to a different MS. of Naradiya-siksa.

Another notable point is the distribution of the murchana-s of the three grama-s among the gods, the seers (who are human beings) and the manes. This is in keeping with the Brahminical tradition of symbolic characterisation already spoken of. It may however be mentioned that, since the seven murchana-s of the sad ja-grama only are allocated to the seers (1si-s) these murchana-s only are considered to be of use in this world by the Naradiya-siksa (cf. 1.2.13-14).

ग. तानाः

(i) शुद्धताननिर्माणविधिः, सङ्ख्या च

1. शुद्धतानलचणम्

तानाः स्पुर्मूच्छनाः युद्धाः षाडवौडुवितीकृताः ।

C. The tana-s : 27-90

- (i) The formation and the number of the *suddha-tana-s* (specific combinational note-series) : 27-30
- (1) The definition of the suddha-tana : (27ab)The suddha1 (standard) mūrcchanā-s, by dropping /one

Tana, which has been rendered as 'note-series' is essentially a murchand. The word tana is derived from the Sanskrit root tan to spread, to stretch, or to expand, enlarge, develop.

1. Suddha literally means pure i. e., unmodified or natural. In this context, suddha implies an ascending and descending series of seven standard notes placed in their regular order in the sadja or madhyama grama; and that is why it has been rendered here as 'standard',

or two notes become śuddha-tāna-s² (specific combinational note-series). (27ab)

The mürcchanā-s have been classified into four types (cf. verse 16 ante), viz. standard (śuddha., kākali-inclusive, antara-inclusive and inclusive of both. Broadly speaking, these four types fall into two categories, viz. composed of standard notes only and composed of standard and modified notes. A tāna is formed by dropping one or two notes from any standard mürcchanā. Thus, a śuddha-tana is nothing but a standard mürcchanā deprived of one or two notes.

The word *iuddha* qualifies both the words *mūrcchanā* and *tāna*. *Tāna-s* are also of two types *šuddha* and *kūța*, i. e. combinational and permutational. 'K' argues that if the word *šuddha* of the text is taken merely to qualify the word *tāna*, then *šuddha-tāna-s* would proceed from all the fiftysix *mūrcchanā-s* already described, and in that case the number of hexatonic and pentatonic *tāna-s* would not tally with the text ; while on the other hand, if it qualifies only *'mūrcchana'* then even *kūța* i. e. permutational *tāna-s* would also be possible from the standard *mūrcchanā-s*, which is contrary to the fact. Thus it is that *suddha* (standard) *mūrcchanā-s* when deprived of one or two notes become what is called the hexatonic and the pentatonic combinational note-series. Mataňga, however, p sints out another difference between *mūrcchanā* and *tāna*. He says : *"mūrcchanā* proceeds in the ascending order, while *tāna* proceeds in the descending order only " So *tāna*, as differentiated by him, is restricted to the descending order of notes only.

2. षाडवतानाः

षड्जगाः सप्त हीनाश्चेत्क्रमात्सरिपसप्तमेः ॥२७॥ तदा ऽष्टाविंशतिस्ताना मध्यमे सरिगोज्झिताः । सप्त क्रमाद्यदा तानाः स्युस्तदा त्वेकविंशतिः ॥२८॥ एते चैकोनपञ्चाशदूभये षाडवा मताः ।

(2) The hexatonic note-series : (27c-29b)

The seven (mūrcchanā-s) of the sadja-grāma, by an individual omission of sa, ri, μ a and ni^{1} in their respective turn, make twenty-eight (note-series). Similarly, the seven (mūrcchanā-s) of the madhyama-grāma, by the omission of sa, ri and ga in turn respectively form twentyone (note-series). Both of them put together, are considered to be fortynine hexatonic note-series.² (27c-29b)

Though the combinational (suddha) note-series (tana-s) are derived from the standard (suddha) mürchandes, the latter is distinguished by the absence of modified notes, the former is distinguished not only by the absence of kakalt and antara notes, but also by the absence of any change in the regular arrangement of notes. If the note-series is set in the permutational form then it is called kūta tana i. e. permutational note-series. The note-series are formed by the omission of one or two notes. If one of the seven notes is omitted; what we get is a hexatonic note-series and if two out of the seven are omitted we get _ pentatonic note-series.

'K' raises the question that, ''since pañcama determines the grāma, if it is omitted, how can it discharge this function ?" He resolves the difficulty by pointing out that the pañcama can only be omitted in the sadja-grāma; therefore, even its omission is indicative of that particular grāma.

'S' explains at length how we get twentyeight note series in the sad ja-grāma and twentyone note-series in the madhyama-grāma. When the seven mūrcchanā-s of the sad ja-grāma are deprived of sad ja, then we get seven hexatonic note-series, likewise when deprived of ri, pa and ni respectively, we get seven other such series in each case, making twentyeight in all. Similarly, in the madhyama-grāma when the standard

^{2.} Tana, in the ancient terminology, is a series of five to six notes in a specific combinational order called *suddha-tana* (specific combinational note-series). Though *suddha-tana* is the full expression, when writing about it in its context, the word *suddha*-is taken for granted and mere *tana* is used instead. Accor dingly, the expression specific combinational note-series is also sometimes replaced by the simple term note-series (in due context). But *tana* as such has to be distinguished from *kūta-tana* (permutational note-series) to be defined presently. However, in modern music *tana*, as defined by Ravi Shankar, is a musical phrase sung on vowels, syllables or words drawn out or stretched by expressive passages. (cf. Glossary of technical words, My Music My Life).

^{1.} Saptama-literally means the seventh (note) i. e. ni.

^{2.} That is, ' sadava-tona-s'.

murcchanā-s are deprived of sa, ri and ga respectively, they form into twentyone note-series. Taken together, we get forty-nine hexatonic note-series. That is how the standard murcchanā-s being deprived of one or two notes become combinational note-series.

An illustration of the hexatonic note-series with the omission of sa in the şadja-grāma

No.	Name of the mürcchand							
1	Uttaramandr a	x	ri	ga	ma	ра	dha	ni
2	Rajant	ni	x	гі	ga	ma	רק	dha
3	Utlar dyal d	dha	ni	x	rl	ga	ma	ра
4	Śuddhasalja	pa	dha	ni	x	ri	ga	ma
5	Matsariksta	ma	ра	dha	ni	x	ri	ga
6	Aśvakrāntā	ga	ma	pa	dha	ni	x	ri
7	Abhirudgata	ri	ga	ma	ра	dha	ni	x
		101						

(Chart 16+)

Note :--- x denotes omitted sa. • Adopted from S. Raj. Vol. I, p. 132.

³. औडुवतानाः

सपाभ्यां द्विश्रुतिभ्यां च रिपाभ्यां सप्त वर्जिताः ।।२९।। षड्जग्रामे पृथक्ताना एकविंशतिरौडुवाः । रिधाम्यां द्विश्रुतिभ्यां च मध्यमग्रामगास्तु ते ।।३०।। हीनाश्चतुर्दशैव स्युः पञ्चत्रिंशत्तु ते युताः ।

(3) The pentatonic note-series : (29c-31b)

Besides, the seven (standard mūrcchanā-s) of the sadja--grāma being deprived of sa and pa, ga and ni^1 and ri and pa respectively form <u>twentyone pentatonic note-series</u>; while those of the madhyama-grāma being short of ri and dha and ga and ni^3 respectively become fourteen (tāna-s): altogether, \mathbb{X} they make thirtyfive. (29c-31b)

Just as the standard murchand-s by dropping one note become hexatonic note-series, by dropping two notes they become pentatonic note-series. In salja-grama, by the omission of sa and pa we get one set of seven pentatonic note-series, by the omission of ga and ni, another set of seven and by the omission of ri and pa the third set of seven, making twentyone in all. Similarly, in the madhyama-grama by the omission of

1 & 2. Dvisruti of the text literally means a bi-srutic note; ga and ni are the two notes with two sruti-s each.

4. षाडवौडुवतान-मिलितसङ्ख्या

सर्वे चतुरशोतिः स्युमिलिताः षाडवौडुवाः ॥३१॥ (ii) कूटताननिर्माणं, तेषां सङ्ख्या च 1. कूटतानलक्षणम्

असम्पूर्णाश्च सम्पूर्णा व्युत्क्रमोच्चारितस्वराः । मूर्च्छनाः कूटतानाः स्युः,

(4) Total number of hexatonic and pentatonic combinational note series (*suddha-tāna-s*) : (31cd)

However, the hexatonic and the pentatonic (specific combinational) note-series make eightyfour in all. (31cd)

(ii) The formation and the number of kūța (permutational) tāna-s (note series) : 32-49

(1) The definition of $k\bar{u}_{ta}-t\bar{u}_{na}$ (permutational) noteseries) : (32 abc)

The complete or incomplete $m\bar{u}$ cchan \bar{u} -s with their notes produced in a permuted form become permutational noteseries ($k\bar{u}$ ta-tāna-s). (32a-32c)

ri and dha we get one set of seven pentatonic series, and by the omission of ga and ni, the second set, making fourteen in all. Thus the pentatonic note-series in both the grama-s are counted as thirtyfive and the number of both the hexatonic and the pentatonic note-series in both the grama-s is considered to be (49+35=84) eightyfour. An illustration of a pentatonic note-series is given as under. We know that mūrcchanā is in the ascending as well as in the descending order of notes.

An illustration of the pentatonic note-series with the omission of sa and pa in the sadja-grāma

No	Name of the murchand		F	orm o	f the n	nūrcch	and	
1	Uttaramandr a	x	ri	ga	ma	•	dha	ni
2	Rajant	ni	x	ri	ga	ma		dha
3	Ultar dyat d	dha	ni	x	ri	ga	ma	
4	Śuddha-şadja	•	dh	a ni	x	ri	ga	ma
5	Matsarikst	ma	٠	dha	ni	x	ri	ga
6	Asvakranta	ga	ma		dha	ni	x	ri
7	Abhirudgat a	ri	ga .	ma	•	dha	ni	x

(Chart 17*) Note:-x denotes sa and • denotes pa. •Adopted from S. Raj, Vol. I, p. 136.

A murchand is said to be complete when it has seven notes, and it is considered incomplete when it has less than seven notes i.e. from six to one; although one note does not make a series, but that is theoretical. Actually, when one or more notes are omitted from a murchand, it becomes a tana (as already explained in the comments on 19-20b ante), a note-series. But, here, the author is talking in terms of incomplete murchand-s (as well) giving rise to permutational note-series, because such note-series are derived from the murchand-series, and not because on this account, they continue to be murchand-s. It has already been said that Bharata has used the expression murchand-tana for hexatonic and pentatonic combinational note-series.

We have already come across the fourfold classification of $m\bar{u}r$ cchanā-s and this is a twofold classification viz. complete and incomplete. Now, the purport of the text is that, a m $\bar{u}rcchan\bar{a}$, whether complete or incomplete, becomes a permutational note-series if the normal order of its notes is disturbed, and in that case even a descending movement to a certain extent is no bar. It may be pointed out that ordinarily the notes of the m $\bar{u}rcchan\bar{a}$ -series (krama-s) from which the note-series are derived are in the ascending order.

2. पूर्णकृटतानानां सङ्ख्या

तत्सङ्ख्यामभिदध्महे ।।३२॥

पूर्णाः पञ्च सहस्राणि चत्वारिंशद्युतानि तु । एकैकस्यां मूर्च्छनायां कूटतानाः सह क्रमैः ॥३३॥ षट्पञ्चाशन्मूर्च्छनास्थाः पूर्णाः कूटास्तु योजिताः । लक्षद्वयं सहस्राणि द्र्यशीतिर्द्वे शते तथा ॥३४॥ चत्वारिंशच्च सङ्ख्याता

(2) The enumeration of the complete permutational noteseries : (32d-35a)

We calculate their number as follows. Including the $m\bar{u}$ rechand-series (krama-s) there are five thousand and forty (5040) complete permutational note-series in each of the.

Matauga has spoken of five thousand thirtythree permutational note-series, and Śārugadeva has added the seven mūrcchānā-series to this number, for each of the fiftysix mūrcchanā-s does have seven series of its own. Dattila also does not include the seven mūrcchanā-series (krama-s) in the total number of permutational note-series, but that mūrcchanā-s. Thus, the total number of the complete permutational note-series subsisting in the fiftysix mūrcchanā-s comes to two lakh eightytwo thousand and two hundred forty (2,82,240). (32d-35a)

makes no difference in principle. The number 5040 is arrived at in the following manner :

With 1 note the number of possible permutational series of

			of	the note	s will be	X =	1
With 2 n	otes		, ,	39	33	$1 \times 2 =$	2
With 3	39	**	,,	23	"	$2 \times 3 =$	6
With 4	23	>>	33	"	**	6×4=	24
With 5	,,,	"	33		>>	$24 \times 5 =$	120
With 6	,,		>>	,,	,,	$120 \times 6 =$	720
With 7	,,	,,,	**	,,	33	720×7=:	5040

To demonstrate let us take items with 2 and 3 notes to begin with :--

	Two-note-series		
2.	Three-note-series	:	sa ri ga ri sa ga group A with ga constant
			sa ga ri ga sa ri } group B with ri constant
			ri ga sa group C with sa constant

Now, it will be observed that the two-note-series is a simple one and does not involve any complicated procedure in the working out of the different permutations as in the case of the three-note-series, and much more so in all the subsequent series. The permutations in the three-note-series are so arranged that an attempt is made as a rule to keep the last note of the series constant as long as possible. This is demonstrated in the four-note-series worked out hereunder.

S. No.	Group A	Group B	Group C	Group D
1.	sa ri ga ma	sa ri ma ga	sa ga ma ri	ri ga ma sa
2.	ri sa ga ma	ri sa ma ga	ga sa ma ri	ga ri ma sa
3.	sa ga ri ma	sa ma ri ga	sa ma ga ri	ri ma ga sa
4.	ga sa ri ma	ma sa ri ga	ma sa ga ri	ma ri ga sa
5.	ri ga sa ma	ri ma sa ga	ga ma sa ri	ga ma ri sa
6.	ga ri sa ma	ma ri sa ga	ma ga sa ri	ma ga ri sa

It will be observed that on the basis of the above principle, the 24 permutations of the four-note series have been classified and arranged

Section 4 : Grāma, Mürcchanā, Krama and Tana

Treatment of Svara

in four groups in each of which the notes ma, ga, ri and sa respectively are constant, while the position of other notes keeps on changing. This gives us the clue to find out the number of possible permutations. Similarly the 120 permutations of the pentatonic series, 720 of the hexatonic series and 5040 of the complete series can be worked out easily. Another principle involved in these calculations is that the number of permutations of the preceding series denotes the number of times each note of the succeeding series can be kept constant. Thus, for example, the permutations of the two-note-series are 2, therefore in the three-note-series all the three notes can be kept constant twice, leading us to $(2 \times 3 = 6)$ six permutations in all. Likewise, in the four-noteseries, each note can be kept constant for 6 times since the preceding three-note series has six permutations, leading us to $(4 \times 6 = 24)$ twentyfour permutations in all. That is how the pentatonics are $5 \times 24 = 120$, the hexatonics are $6 \times 120 = 720$, and the complete series are $7 \times 720 = 5040$.

3. अपूर्णकूटतान-निर्माणम् ,अथापूर्णान्प्रचक्ष्महे । एक्रैकान्त्यान्त्यविरहाद्भेदाः षट् षट्स्वरादयः ।।३५।। एकस्वरो ऽत्र निर्भेदो ऽप्युक्तो नष्टादिसिद्धये ।

क्रमा अकूटतानत्वे ऽप्युक्तास्तेषूपयोगिनः ।।३६॥ (3) The formation of the incomplete permutational note-series : (35b-36)

Now, we are to describe the incomplete (permutational note-series). In each (of the murchanā-s) six varieties are formed, viz. hexatonic¹ etc. by successively dropping the last note step by step. Although the monotone has no sub-

The incomplete permutational note-series are formed by the simple device of dropping the last note from seventh to the second; thus, by dropping the seventh we get a hexatonic *tana*, by dropping the sixth we get a pentatonic *tana*, by dropping the fifth we get a tetratonic noteseries, by dropping the fourth we get a tri-tone note-series, by dropping the third we get bi-tone series and by dropping the second we get the mono-tone: these are the six varieties. varieties, it is also counted for the working of *nasta.*³ The original-series ($krama-s^3$) which are unrelated to the permutational note-series have also been included as they will be useful with regard to them. (35b-36)

The number of note-series in each of them will now be described. The terms nasta and uddista will shortly be explained in their proper context, but for the time being the author has pointed out the reason for enumerating the mono-tone as a note-series even though it can have obviously, no varieties. Similarly, the krama-s or the murcchana-series (precisely called here as, the original-series) too have been enumerated for technical reasons which will soon be clear.

4. अपूर्ण कूटतानानां सङ्ख्या

-		••	पतुाप द्वावेकस्त्वेव			
	πi	क्रदावां	चतुर्वि	णविज्ञीतिः	r . .	,
औडुवानां	तु	विंशत्या	सहितं	शतमिष्य	ति	।।२७।।
स्युः षाडव	रानां	विंशत्या	सह सप्त	शतानि	नु	1

(4) The enumeration of the different permutational note-series : 37-38

The hexatonic series formed are seven hundred and twenty¹, and the pentatonic series are one hundred and

Arcika literally means relating to the *kgveda* (*kc+veda*). *kc* is a hymn, and the hymns employed in the performance of sacrifices, it seems, were sung in the monotone, though the accent system was also there with its three accents viz., *udatta* (raised), anudatta (unraised) and svarita (intermediate note). 'K' also says, "Yajñaprayogeşu tcamekasvarafrayatoat, tatsambandhādārcikaķ" i. e., hymns while they are employed in

(2. Nasta will be explained later.

- 3. Krama in this context refers to the original (mūla) form of the mūrcchanā-s in their ascent i. e., 'sa ri ga ma pa dha ni' for uttamandrā. However, the term mūrcchanā-series applied to the 392 series spoken of vide 19-20 ab ante is not precisely applicable in the context of the calculation of permutational noteseries, the krama-s for which may consist of six to one notes each in the original order of the mūrcchanā-series concerned. Thus, the krama-s in this context have been rendered as the original series, as the author himself names them as mūla-krama-s somewhere else (verse 40 of this section).
- 1. This includes the original series (krama-s) as well.

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^{1.} Hexatonic, i. e., having six tones, the other varieties being pentatonic, tetra-tonic series, tritone-series, bitone-series and monotone-series.

Section 2 : Cristing, Marching, Assaint and Amin

Treatment of Svara

5. एकस्वरादि्-कूटतानचतुष्टयस्य नामानि आचिको गाथिकश्चाथ सामिको ऽथ स्वरान्तरः । एकस्वरादितानानां चतुर्णामभिधा इमाः ॥३९॥

twenty, the tetratonic permutational note-series are known to be twentyfour, the tritone series are six, the bitone series are two and the monotone is one, of course. (37-38)

(5) The names of the first four permutational note-series : 39

The names for the first four note-series such an monotone etc. respectively are *ārcika*, *gāthika*, *sāmika* and *svarāntara*. (39)

the sacrifices take resort to the monotone, and so being related to them, the monotone is called *arcika*.

Similarly gathika, is the one that is related to gatha, i. e. nonvedic religious verse. Likewise the tritone is associated with the Samaveda: the hymns of this particular veda were sung in three tones when employed for sacrificial purposes. However, the Samaveda otherwise bears ample evidence that its music was based on seven notes, though we need not go into this subject in this context. But it is worthwhile to quote Swami Prajñanananda who writes, "The samagana was of various types with different numbers of tone in different vedic recensions (sakha-s), and they had different methods of rendering. Usually three, four or five notes were used in the samagana-s, but in the kauthuma recension (sakha) the samagana was presented with seven vedic notes. The vedic notes were in the downward movement (avarohana-kramena), whereas the modern classical notes are used in the upward movement (arohaņakramena)", (cf. Historical Development of Indian Music, pp. 46, 47). It may also be observed that the bulk of the hymns of the Samaveda are taken verbatim from the Rgveda with a view to their application in the context of certain sacrifices. It is interesting to reler to the Naradiyafiksa in this context which also gives the four names exactly as in the text : "Arcikam gathikam caiva samikam ca svarantaram" (1.1.2), and then it goes on to explain as under :

"Ekantarah svaro hytkşu gathasu doyantarah svarah : Samasu tryantaram vidyādetavat svarato-antaram" (1.1.3) i. e., "The hymns of the Rigveda are to be sung with a single-space tone, those of the gatha with the doublespace-tone, while those of the Samaveda with the triple-space tone; such is the scheme of tonal spacing." Although later in the classical period gatha represents non-vedic religious verse, from the above context and also from the following verse it seems, here it refers to the *Yajur-veda*. The fact that this tonal distribution is related only to those hymns that are meant to be employed in the sacrificial acts is also evidenced by the following verse of this work:

"Rk sāmayajuraigānī ye yajūeşu prayuūjate, avijūānāddhi šāstrāņām teşām bhavati visvaraķ." (1.1.4), i e, 'Those parts of the Rg. Yajur and the Sāma-veda-s that are applied in sacrificial acts, due to the lack of scientific understanding, are recited in the wrong tone (i. e. in an improper and unprecise way)' Here, the word Tajur seems to have been used for gāthā. However, in the Vedic literature the word gāthā is also used in the sense of gāna i. e, song Swami Frajāanānanda, after giving the illustrations ef its use in the Rigveda, concludes that "gāthā is, giyate-iti gāthā i. e., that which is sung, or is suitable for singing is gāthā". (cf. Historical Development of Indian Music, pp. 46, 47).

पाडवकूटतान-सङ्ख्या

उक्ताः शुद्धादिभेदेन निगयुक्ताश्चतुर्विधाः । तयोरेकंकहोनास्तु द्वेधा मूलक्रमा मताः । । ४० ॥ षड्जाद्यौ मध्यमाद्यौ च चत्वारः स्युद्धिधा द्विधा । चतुर्धा ऽन्ये दशेत्यप्टाचत्वारिंशदमी क्रमाः । । ४१ ॥ सविंशतिः सप्तशतो प्रागुक्ता गुणिता क्रमैः । चतुस्त्रिंशत्सहस्राणि षष्ट्चा पञ्च शतानि च ॥ ४२ ॥ इति षाडवसङ्ख्या स्यात्,

(6) The enumeration of the hexatonics :40-43a

The original series, inclusive of ga and ni have been mentioned¹ to be fourfold viz. $suddh\bar{a}$ (standard) etc., but if deprived of either² of them, they are considered to be two-

The murchana-s such as 'sa riga ma pa dha ni: ni dha pa ma ga ri sa' etc. have been explained as fourfold vide verse 16 ante. The four types enumerated are the standard, the $k\bar{a}kali$ -inclusive, the antarainclusive and the twin-inclusive (i.e. inclusive of both $k\bar{a}kali$ and antara). Corresponding murchana-series are derived from out of these, taking the seven notes in their ascending order. However, as already explained

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^{1.} The fortysix murchanu-series mentioned vide 16-17 ante.

^{2.} That is, if either ni or ga is dropped.

fold⁸. The four⁴ beginning with *sadja⁵* and *madhyama⁶* are twofold each, and the other ten are fourfold; thus, these original series are forty-eight⁷ in all. (40-41)

The seven hundred and twenty⁸, already enumerated, when multiplied by the original series make thirty-four thousand five hundred and sixty, which forms the total number of hexatonics⁹. (42-43a)

(cf. note 3 on 35b-36d), when one or more notes are dropped out of these series in their original order for making permutational note-series, these mürcchanā-series in that modified form are called *krama-s* or original series. The author, now onwards, is taking into account the number of these original series in the hexatonic to monotonic series.

Now, if hexatonic note-series are to be formed out of the murchanaseries, the last note may be dropped in the process, in each case. Thus we shall, in effect, have two types of note-series viz. inclusive of either kakalt or antara or exclusive of either of them.

Fourteen murchandes have been spoken of (vide verse 15 ante) in both of the gramaes. Out of these fourteen, two in each of the gramaes (i.e. four) begin with so and ma and end in ni and ga respectively. In their case only two alternate types are possible viz., suddha (standard) and antara-inclusive, and suddha (standard) and kakalt-inclusive. The rest of the ten murchandes will have the usual four varieties. Thus we have four hexatonic note-series, which are two-fold, making eight varieties in all, and ten hexatonic note-series that are four-fold making forty varieties in all. The total number of the original series, in this way, comes to forty-eight. (40-41)

Seven hundred twenty permutational hexatonic note-series have been enumerated (cf. verse 37 ante) for each mūrcchanā. In all fortyeight mūrcchanā-series have been counted. Thus the total number of The permutational hexatonic note-series is worked out $(720 \times 48 = 34560)$ to be thirty-four thousand five hundred and sixty.

- 3. Viz in case ni is dropped, standard and antara-inclusive; and in case ga is dropped, standard and kākali-inclusive.
- 4. The four murchana-series.
- 5. The first murchana (uttaramandra) of the sadja-grama and the fourth murchana (suddhamadhva) of the madhyama-grama.
- 6. The fifth murcchana (matsarik ta) of the sadja-grama and the first (sauviri) of the madhyama-grama.
- 7. $(4 \times 2 = 8) + (10 \times 4 = 40) = 8 + 40 = 48$.
- 8. 720 permutational hexatonic note-series, formed out of a given combination.
- 9. That is, permutational hexatonic note-series, formed out of 48 hexatonic combinations or original series. This number also includes the original-series (mülakrama-s).

7. ओडुवकूटतान-सङ्ख्या

,अथ पञ्चस्वरान्ब्रवे ।

गाद्यौ धाद्यौ निषादाद्यौ चतुर्भेदाः धडौडुवाः ॥४३॥ अष्टावन्ये द्विधेत्येवं चत्वारिंशदिमे क्रमाः । सविंशतौ शते तैश्च गुणिते ऽष्टौ शतानि तु ॥४४॥ चत्वारि च सहस्राणि सङ्ख्या पञ्चस्वरेष्विति ।

(7) The enumeration of the pentatonics : 43b-45b

Now, I am to describe the pentatonics.¹ The six pentatonics² commencing with *ga dha* and *ni* are fourfold, and the eight others are twofold; thus, these (original) series are forty in all, which when multiplied by one hundred and twenty⁸ bring the total number of the pentatonics⁴ to four thousand and eight hundred. (43b-45b)

The pentatonic permutatianal note-series are formed by dropping the last two notes of the *mirrechana*-series. In the two grama-s we have six series i. e., three in each beginning with g_i , dh_a and ni in which naturally neither g_i nor ni is dropped. So these six series are fourfold; but in the case of remaining eight series either g_i or ni is dropped, and so we can have only two types. That is how the total number of pentatonic series is found to be forty, i. e. $(6 \times 4 = 24) + (8 \times 2 = 16) = 24 +$ 16 = 40.

1. The pentatonic permutational note-series.

Commencing with	The marcchana-s in the gramas								
the note		adja-grama	Madhyama-grama						
	No.	Name	No.	Name					
ga	6th	Asvakranta	2nd	Harinasva					
dha	3rd	Uttarayata	6 th	Pauravi					
ni	2nd	Rajant	5th	Margt					

2. These six are identified to be from the murchana-s of the two grama-s as under.

(Chart 18)

(Showing pentatonic series inclusive of ga and ni)

- 3. 120 is the number of permutational pentatonic note-series (kū{atdna-s) formed out of a given combination or original-series.
- 4. That is permutational pentatonic, note-series formed out of 40 pentatonic combinations or original series. The number also includes the original series (mala-krama-s).

Again each of the mūrcchanā-series has been spoken of as having one hundred and twenty permutational pentatonic note-series. We have forty mūrcchanā-series for pentatonics, and multiplied by one hundred and twenty, the total number of the permutational pentatonic noteseries comes to four thousand eight hundred including the original mūrcchanā-series.

8. चतुःस्वरकूटतान-सङ्ख्या चतुःस्वरेषु न्याद्यौ द्वौ चतुर्धा द्वादशापरे ॥४४॥ क्रमा द्विधेति द्वात्रिंशच्चतुर्विंशतिताडिता । शतानि सप्ताष्ट्रषण्टचा स्याच्चतुःस्वरसंमितिः ॥४६॥

(8) The enumeration of the tetratonics : 45c-46

Among the tetratonics¹, the two commencing with *ni* are fourfold, while the other twelve (original) series are two-fold; these thirtytwo² when multiplied by twentyfour³ make a sum-total of Seven hundred and sixty-eight.⁴ (45c-46)

Of the fourteen mirchand-s of the two gramas when the tetratonics or the series of four notes are derived, two of them that begin with *ni* (i. e. from the second of the *salja-grama*, *rajant*) and the fifth of the *madhyama-grāma mārgi*), include ga as well, and therefore have four varieties. The other twolve drop either *ni* or ga and hence have only two types. So among the tetratonics we have $(2 \times 4 - 8) + (12 \times 2 = 24) =$ 8+24=32 (thirty-two) original series.

Twenty-four permutational note-series of the tetratonics have been enumerated for each of the original series (vide verse 38 ante). So, thirty-two multiplied by twenty-four yields seven hundred and sixtyeight tetratonic series.

- 1. 'Tetratonic' is an abbrreviated expression for the permutational note-series of four notes.
- 2. That is, eight obtained from the two murchana-s beginning with ni and twenty four from the remaining twelve murchanas, having two varieties each.
- 3. The number of permutational note-series of four tones in each combination or original series.
- 4. That is, permutational tetratonic note-series, formed out of 32 tetratonic combinations or original series. This number also includes the original series (mila-krama-s).

9. त्रिस्वरकूटतान-सङ्ख्या त्रिस्वरेषु तु माद्यौ द्वावमेदौ दादशापरे। द्विधा षड्विंशतिरिति क्रमास्ते षड्भिराहताः।।४७।। षट्पञ्चाशच्छतं च स्युः,

(9) The enumeration of the tritones : 47-48a

UTUILUE A . Unmering trans unmering

But among the tritones¹, the two commencing with ma have no variations, while the remaining twelve are twofold : thus, these twenty-six (original) series when multiplied by six make one hundred and fifty-six² in all. (47-48a)

When the tritone permutational note-series are formed from the fourteen murchand-s, the last four notes are dropped in each case. In this process the two murchand-s of the two grama-s beginning with ma, i. e., the fifth (matsartkftd) of the sadja-grama and the first (sauvirt) of the madhyama-grama, when deprived of their last four notes, drop out both ni and ga, and thus can have no varieties. The other twelve series have two varieties each, for they would retain either ni or ga. That is how the original series for three tones are counted as twentysix: $2+(12\times 2=24)=26$.

Again, each of the original series has six tritone permutational note-series (cf. verse 38 ante). Thus, the total number of the tritone permutational note-series comes to one hundred and fiftysix (i. e. $26 \times 6 = 156$).

10. द्विस्वरैकस्वर-क्रूटतान-सङ्ख्या , द्विस्वरेष पुनद्विधा ।

रिगधन्यादयो ऽष्टौ स्युः शुद्धास्तदितरे क्रमाः ॥४८॥

(10) The enumeration of the bitones and the monotones : 48b-49

Again among the bitones¹, the (original) series commencing with *ri*, *ga*, *dha* and *ni* being twofold are eight, while

- 1. That is, the permutational note-series of three notes.
- 2. That is, permutational tritonic note-series, formed out of 26 tritonic combinations or original series. This number also includes the original series (mūla-krama-s).
- 'Bi-tone' represents the permutational note-series of two notes.
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द्वाविंशतिस्ते त चतुश्चत्वारिंशद द्विताडिताः । एकस्यरास्त्वमेदत्वान्मौला चतुर्दश ॥४९॥ एव

the others² are *suddha* (standard). These twenty-two multiplied by two become forty-four³ while the monotones⁴ having no variations are fourteen⁵ krama-s in identity with the original-series. (48b-49)

The bitone permutational note-series are formed by dropping the last five notes from the *mūrcchana*-series. In this process the bitone series beginning with ri, ga, dha and ni include either ga or ni and are therefore twofold, yielding sixteen varieties in the two grama-s. The remaining six series, being devoid of both ga and ni, have no variations. Thus the bitones are twenty-two series. But each murchand-series has two bitones; so the total number of bitone permutational note-series is forty-four (i. e. $16 + 6 = 22 \times 2 = 44$).

With the so-called monotone series, there is obviously no question of variation, so in identity with the fourteen murchand-s from which they are derived, they are fourteen in all.

To recapitulate, the total number of the permutational note-series enumerated hitherto is computed as under :--

(i) The complete series of seven tones each 2,82,240 vide

		verse No. 34 an				
(ii)	The hexatonic series of six tones each	34,560	,,	,,	42	33
(iii)	The pentatonic series of five tones each	4,800	11	,,	45	

X

(iv)	The tetratonic series	768	**	"	46	**	
(v)	The tritonic series	156	**	,,	48		
(vi)	The bitonic series	44	**	**	49	**	
(vii)	The monotones	14	33	,,	49	33	
					00	-	

Total number including original series 3,22,582

- The remaining six original series i. e., krama-s. 2.
- This number includes the original series as well. 3.
- Permutational note series of one note each. 4.
- That is because the series of mürcchand-s are fourteen. 5.

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(iii) पुनरुकाः क्रूटतानाः, तेषामपनये क्रूटतान-सङ्ख्या षड्जादेः शुद्धमध्याया मेदकं पञ्चमं विना। चतुःस्वरे क्रमद्वन्द्वे ऽष्टाचत्वारिंशदीरिताः ॥४०॥ तानास्त्रिस्वरयोस्त्वेते द्वादश द्विस्वरे द्वयम् । त्रिषष्टिरौत्तरमन्द्रकैः ॥४१॥ एक एकस्वरस्ते मतास्तानैन्यादिमार्गीक्रमाः पुनरुक्ता प्रनः । पञ्चस्वरा ये चत्वारस्तत्तानानां चतुःशती ॥४२॥ अशीत्यम्यधिका चातुःस्वरी षण्णवतिर्भवेत् । व्वादश त्रिस्वरद्वन्द्वे चत्वारो द्विस्वरद्वये ॥४३॥ एक एकस्वरस्तानस्तेषां पञ्चशती त्वियम् । त्रिनवत्या यूता तानेरभिन्ना रजनीगतैः ॥४४॥ धेवतादेस्तु पौरव्याश्चत्वारः षट्स्वराः क्रमात् । तत्तानानां तु साशीतिः शताब्टाविंशतिर्मता । १११। ओडुवानां चतुर्णां प्रागुक्ता सङ्ख्या चतुःस्वरौ । त्रिस्वरौ दि्वस्वरावेकस्वरः प्रागुक्तसङ्ख्यकाः ॥४६॥ पञ्चविंशतिसंयुक्ता चतुस्त्रिंशच्छती त्वियम् । तानानां सदुशाकारा स्यात्तानैरौत्तरायतैः ॥४७॥ इत्येकाशीतिसंयुक्तं सहस्राणां चतुष्टयम् । तानानां पुनरुक्तानां पूर्णापूर्णैः सह क्रमैः ॥४८॥ अपनीयेत चेदेषा कुटतानमितिभंवेत । लक्षत्रयं सप्तदश सहस्राणि शतानि च ॥ ४९॥ नवत्रिंशद्युतानीति,

Section 4 : Grama, Murcchana, Israma and Lona

(iii) The repetitions and the total number of permutational note-series : 50-60

In the absence of the grāma-indicative¹ pañcama of the suddha-madhyā² commencing with sadja, forty-eight note-series of tetratones, twelve of tritones, two of bitones and one of the monotone in the two original series,⁸ making sixty-three in all are considered to be the repetitions of those pertaining to uttaramandrā⁴. (50-52a)

In märgi⁵, which commences with nisāda, the four⁶ (original-series) provide four hundred and eighty pentatonic

The 3,22,582 permutational series of notes just enumerated not only include the number of original-series (krama-s) but also many repetitions in-between the note-series of the two grāma-s. 'K' very ably introduces this matter as under:

"Even though ni and ga in their $k\bar{a}kalt$ and antara forms determine and bring about the murchand-variation, yet while this difference in relation to other notes is quite notable, it is hardly perceptible within these notes i. e., with reference to $ni\bar{g}\bar{a}da$ and $gandh\bar{a}ra$; and that is why these two (i. e. $k\bar{a}kalt$ and antara) are not considered to be as good as the standard notes. Again, if as a rule, the different murchand-s such as rajant etc. commencing with ni etc. in the fadja-grama come into being by occupying the position of middle fadja and those in the madhyama-grama such as $h\bar{a}rigadva$ etc., commencing with ga etc., occur by occupying the middle madhyama of the madhyama-grama, then even where the gramaindicator viz. the pancama is omitted, because of the difference in the



1. Pañcama is considered to be indicative of the grāma in the sense that if it is a four-śruli pañcama it indicates the sa, jagrāma and if it is a three-śruli pañcama it indicates the madhyama-grāma. Literally, the 'bhedaka' of the text means 'discriminator' implying that it functions to distinguish between the two grāma-s.

- 2. Suddhamadhya is the fourth mürcchana of the madhyama-grama and runs as 'sa ri ga ma pa dha ni'.
- 3. The series pertaining respectively to the two types standard and antara-inclusive.
- 4. The first mürcchanā of the sadja-grāma which runs as : sa ri ga ma pa dha ni.
- 5. The fifth mürcchand of the madhyama-grama commencing with ni and ending with dha.
 - 6. These are-standard, kakali-inclusive, antra-inclusive and inclusive of kakali-antara.

note-series and ninety-six tetratonic series; the two⁷ (original series) produce twelve tritone and four bitone note-series, which along with the one monotone altogether make five hundred and ninety-three note-series that are identical with those of rajant.⁸ (52-54)

Pauravi^o, commencing with dhaivata, with its four¹⁰ (original series) is found to have two thousand eight hundred gramic position of the commencing note of the marcchand, there is no question of any repetition being made in the permutational note-series proceeding from them, since their parent grama can easily be traced. But however, if as a rule, in the two grama-s the different murchana-s are formed by placing the commencing notes one below the other then the note series of the suddha-madhya, margl and paurant murchana-s of the madhyama-grama have a necessary correspondence with the note-series such as hexatonics etc of the uttaramandra, rajant, uttardyata etc., the murcchana-s of the sadja-grama; and thus, due to the lack of difference in the gramic position of the commencing notes and also because of the omission of paincama there is a definite possibility of their having been repeated. Therefore, the author is now to point out such repetitions in the note-series of the madhyama-grama, in order to exclude them from the total number."

Now, this introduction to the topic of repetitions, significant as it is, obviously requires some clucidation. Two ways of forming the marcchana-s have been mentioned (verse 12-15 ante) viz. (i) by commencing the succeeding marcchana-s with their opening notes placed in the position of sadja in the sadja-grama and madhyama in the madhyamagrama and (ii) by placing their commencing notes one below the other. The commentator points out that in the first case there is no possibility of repetitions, for then the grama-distinction is preserved, but in the second case the possibility does exist. After all, the only markable difference between the two grama-s is the number of *stuti-s* of paffcama, the other differences being consequent upon it. The process of forming note-series is such that successively the last notes are dropped. In this process pa, which is indicative of the grama, is invariably retained in the

- 7. These are-standard and kakal1-inclusive.
- 8. The second mürcchand of the salja-grama corresponding to the margl of the madhyama-grama.
- 9. Pauravi is constituted as : dha ni sa ri ga ma pa .
- 10. The four original series are of the four types, viz. standard, kakali-inclusive, antara-inclusive and inclusive of both kakali and antara.

The number of repetitions

	The itemper of repetitions									
SI. No.	Description of series	No. of repeti- tions	1	Remarks						
1.	•Complete original series	392	56 × 7 = 392	•i. e. mūlakramas or krama-s						
2.	Incomplete original series	179	48+40+32+26 +22+11=179	Hexatonic, pentato- nic, tetratonic, tri- conic, bitonic and monotone scries res- pectively.						
3.	Repeated note-series	4081	63+-593+-3425 4081	śuddhamadhyð, mðrgi þauravi respectively						
	Total number of repetitions : 392+179+1081=4652									
		((Chart 19b)	······································						
	The correct	t number	of permutational a	note-series						
	`otal number of no `otal number of rej			3,22,582 (—) 4,652						
C	Correct number of	note-serie	:\$	3,17,930						
		((Chart 19c)							
·	(iv) प्रतिमूर्च्छनं कूटतान-सङ्ख्याज्ञानोपायः , ज्ञानोपायो ऽत्र कथ्यते ।									
	अङ्कानेकादिसप्तान्तानूर्ध्वं मूर्ध्वं लिखेल्क्रमात् ॥६०॥									
•			तेषु चाङ्के प							
	एकस्वरादिसः	ङ्ख्या र	त्यात्क्रमेण प्रतिमू	च्छंनम् ॥६१॥						
(iv)	Determining the note-series of each of the series of the s			tional forms in the						

Now, the method of determining them¹ is herewith described : Let the numbers one to seven be written (verti-

Since the number of permutations making for the note-series enumerated above is enormous, a mathematical device has been devised to determine the number of a particular permutation of a given form cally) one over³ another in consecutive order. Every succeeding⁸ number multiplied by the preceding⁴ one respectively points out the number of note-series such as monotone etc., in each mūrcchanā. (60b-61)

in a particular series and also the particular form of a certain permutation in a particular series, given its proper number. This device is called *khauda-meru*, which will be explained subsequently.

Presently the author is trying to explain the method of working out the precise number of the note series or the permutational form of a particular series of notes such as monotone, bitone, tritone series and so on in each murchana.

The text directs us to write numbers commencing from one upto seven, one over the other i. e., vertically. These numbers incidentally would represent the particular note-series such as monotone, bitone, etc. Keeping in view the directions of the text the numbers would be written from the bottom to the top. 'S' too interprets the text as such.

Number of permutational forms in different note-series in each mürcchanā

SI. No.	Note-series	Suggested multip	oli- N	umber of the permuta- tional form
7	Heptatonic	7 × 720	=	5040
6	Hexatonic	6×120	•	720
5	Pentatonic	. 5× 24	5	120
4	Tetratonic	4× 6	•	24
3	Tritonic	3× 2	-	6
2	Bitonic	2× 1	=	2
1	Monotone	1× 1	0	1
		(Chart 20a)	-	() // — // — // — // —

However, for the sake of convenience an inverted graph is presented below commencing with the monotone from the top. To apply the text, the figures in the first vertical row in column 3 be taken as the succeeding numbers and the figures of the respective previous series in column 4 may be taken as the preceding numbers.

- 2. This expression does not suggest that the numbers are not to be written serially, for that direction has explicitly been given immediately in the text, it only implies that they are not to be written horizontally as usual.
- 3. The successive note.
- 4. The preceding resultant i. e., the number of the permutations of the previous series,

^{1.} This refers to the permutational note-series i. e., the kataidaa-s.

Number of permutational forms in different note-series in each mürcchand

Sl. No.	Note-series	Suggested multip cation	oli- Nu	mber of the permuta- tional form
1	Monotone	1× 1	=	1
2	Bitonic	2× 1	=	2
3	Tritonic	3× 2		6
4	Tetratonic	4× 6	=	24
5	Pentatonic	5 × 24	===	120
6	Hexatonic	6×120		720
7	Heptatonic or complete	7×720	=	5040
•	· (• •	· · · · · · · · · · · · · · · · · · ·		

(Chart 20b)

In other words, every successive note in a given series has as many possibilities of permutation as those of all the notes of the preceding series put together. That is how the number of the permutations of the preceding series, when multiplied by the number of notes in the successive series results in the total number of the permutations of the succeeding series.

(v) कूटतान-प्रस्तारः

क्रमं न्यस्य स्वरः स्थाप्यः पूर्वः पूर्वः पराद्धः । स ॰ चेद्रुपरि तत्पूर्वः पुरस्तूपरिवर्तिनः ।।६२।। मूलक्रमक्रमात्पृष्ठे शेषाः प्रस्तार ईदृशः ।

(v) The formation of the permutational calculus (prastāra) : 62-63b

Having established the original order¹, every² preceding note has to be placed below the succeeding one. If

Now, the author is explaining the procedure for forming, what may be called the 'permutational calculus' (prastara), that is, he is

Section 4 : Grama, Murcchana, manual and and

that⁸ becomes the succeeding note, the preceding one may be advanced keeping the subsequent⁴ notes afterwards; and

describing the method of placing the notes of various types of noteseries such as complete, hexatonic etc., in a particular and progressive sequence of notes, giving all the possible permutations of the series. The essential formula consists in the rule that, while forming the 'permutational calculus' (*prastara*) the notes of the series may, in the first instance, be placed in their original order, which may be considered to be the first note-series. In order, further to derive the other possible permutations the preceding note in each of the series has been placed below the succeeding note.

The question is, 'what to do about the remaining notes' ?, and the author himself explains that the notes following the succeeding note will have to be placed after the note transposed, and the notes preceding it will be placed before it in their original order. This much is the action that is to be taken.

The next series, and all the other possible series will be formed by applying the above rule to their preceding series. The application of the rule is demonstrated by the commentators as under with respect to the permutational calculus of the tetratonic series.

(i) The first series is of the original order viz. sa ri ga ma.

(ii) To form the series the preceding note viz. sa is to be written below the succeeding note, viz. ri. The subsequent notes ga and ma will be written after (or in front of) ri as in the overhead line (i. e., the preceding series), and ri will naturally be placed before i. e., behind it; thus what we get is ri sa ga ma.

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(iii) To form the third series, the second series may be taken as the top. Now as per the rule, ri may be placed below sa which will result in the series sa ri ga ma, a repetition of the original order. The purpose of the permutational calculus being the forming of different

> The implication derived by 'K' is that this action can be taken only once in each of the note-series of a particular sequential order.

- 3. The pronoun 'that', according to 'S', refers to the preceding note i. e., in the first step. This is the second step being explained and accordingly the preceding note of the first step becomes the succeeding note of the second step.
- 4. The subsequent notes are the ones that follow the action taking place among the preceding notes with reference to the previous note-series.

 ^{&#}x27;sa ri ga ma pa dha ni' is the original order of the seven notes. The word krama which has been rendered as 'the mürcchana series' or sometimes as the original series has a different shade of meaning here, though essentially the connotation of the word remains the same. If it is a tetratonic series the order would be 'sa ri ga ma' for it, and so on. Thus, in this context, krama implies the original combinational order of notes of a given note-series. But for the sake of convenience we are to use the expression "original order" corresponding to the Skt. mülakrama.

^{2.} The repetition of the term ' $p\bar{u}rva$ ' in the text has been effected through this expression, since that is the import of the text.

the rest (of the notes in the series) be left behind³ according to the original order; such is the 'permutational calculus'⁶ (prastära). (62-63b)

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permutation-series, no relationship is to be repeated. Moreover, the author has ordained that the two notes can be interposed only once in a series. Thus, ri cannot be placed below sa as that relationship is already available on the top; therefore, ri will now be related to ga, and ga will be placed before ri; ma will follow ri in accordance with the series overhead and sa will be in its own position as per the original order. Thus we shall get sa ga ri ma

(iv) To form the fourth series sa will be placed below ga, ri and ma will follow it as per the overhead series (i. e. the third series) and ga will be placed behind sa. Thus we get ga sa ri ma.

(v) To form the fifth series, as per the rule, ga should be placed below sa (in the fourth series), but if sa is interposed with ga what we get is sa ga ri ma, which we already have in the preceding section of this permutational calculus. So ga will be related to ri and interposed with it. The rest of the notes will follow, yielding ri ga sa ma.

(vi) To form the sixth series ri will be placed below ga (in the fifth series) and interposed with it; the rest of the notes will follow as in the overhead series. Thus we get, ga ri sa ma.

It will be observed that hitherto the position of ma is unaffected, because we have six varieties in the tritone series. We cannot form any more series without affecting the position of ma.

(vii) To get the seventh series we have to place ga below ri and interpose with it. But that will result in the series ri ga sa ma which has already been formed. Similarly ga cannot as well be related to sa, for that will result in the series ri sa ga ma which is already formed. So, ga will now be related to ma, and what we get is sa ri ma ga.

Now, we can form five other series on the above pattern, in which we shall have ga in the fourth place. And so also we can form six other series with ri in the fourth place and six more with sa in the fourth place. That is how twentyfour note-series are formed into the permutational calculus of the tetratone note-series which is presented in the following order:

- 5. 'Behind' the placement of the preceding note i. e., to the left of it on the paper.
- 6. Prastara is defined as the extension of the series of note-series in a particular permutational sequence, which has been explained above.

Section a partaina, according, inclusion of the

Permutational calculus of the tetratonic series

the	Sl.Note-seriesSl.Note-seriesSl.Note-seriesNo. with ma as the fourthNo. with ga as the fourthNo. with ri as the fourthNo. with sa as the fourth	S
allo Holes	1 sa ri ga ma 7 sa ri ma ga 13 sa ga ma ri 19 ri ga ma s 2 ri sa ga ma 8 ri sa ma ga 14 ga sa ma ri 20 ga ri ma s 3 sa ga ri ma 9 sa ma ri ga 15 sa ma ga ri 21 ri ma ga 4 ga sa ri ma 10 ma sa ri ga 16 ma sa ga ri 22 ma ri ga 5 ri ga sa ma 11 ri ma sa ga 17 ga ma sa ri 23 ga ma ri 6 ga ri sa ma 12 ma ri sa ga 18 ma ga sa ri 2; ma ga ri	52 52 52
weeks	(Chart 21) The process of formation is briefly presented in the following cha	-

The process of formation is briefly presented in the following chart as per the rule stated in the text, and demonstrated up to seventh noteseries as explained above.

The process of formation of	of the permutational	calculus of the
tetr	ratonic series	

SI. No. of the note-series	Notes transposed	Series obtained	Remarks
Ist series - 2nd series 3rd series 4th series 5th series 6th series 7th series	sa for ri ri for ga sa for ga ga for ri ri for ga ga for ma	•sa ri ga ma ri sa ga ma sa ga ri ma ga sa ri ma ri ga sa ma ga ri sa ma sa ri ma ga	•This being the lst series no series precedes it and there is no transposi- tion of notes.

(Chart 22 a)

If the notes are 1, 2, 3, 4 we get the following picture of the first six series :

No. of series	sa ri ga ma	R	lemark	8	
lst series	1-2-3-1	Original order			
2nd series	2-1-3-4	1 tra	ansp <mark>os</mark> e	d for	2
3rd series	1-32-4	2	,,	,,	3
4th series	3-1-2-4	1	33	**	3
5th series	2-3-1-4	3	,,	,,	2
6th serics	3-2-1-4	2		,,,	3

(Chart 22 b)

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「ためなどのか」とないで、「ない」という。

Thus, the method of forming the permutational calculus of noteseries has been explained in detail applying the rule to the tetratonic series for illustration. Similarly pentatonic, hexatonic and heptatonic series can also be worked out. Since this is a tedious process, a mathematical graph has been prepared to facilitate the recognition of noteseries with reference to their serial number in the sequential order and their particular order of notes,

(vi) खराडमेरुः 1. खण्डमेरु-निर्माराम्

सप्ताद्येकान्तकोष्ठानामधो ऽधः सप्त पङ्क्तयः ॥६३॥ तास्वाद्यायामाद्यकोष्ठे लिखेदेकं परेषु खम् । वेद्यतानस्वरमितान्न्यस्येत्तेष्वेव लोष्टकान् ॥६४॥ प्राक्**पङ्क्त्यन्त्याङ्क्रसंयोगमूर्घ्वाधःस्थितप**ङ्क्तिषु । शून्यादधो लिखेदेकं तं चाधो ऽधः स्वकोष्ठकान् ॥६४॥

कोष्ठसङ्ख्याग्रणं

न्यस्येत्खण्डमेरुरयं मतः ।



इति खण्डमेरुः

OCULUM T. Ulama, Mullemana, grammanica rama

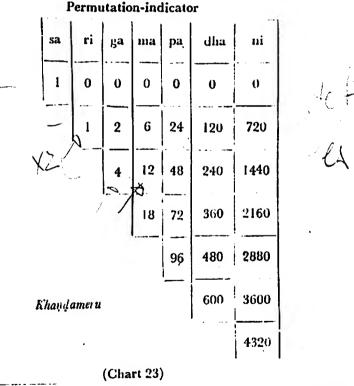
(vi) Khandameru (permutation-indicator) : 63c-71

(1) The construction of the permutation-indicator: (63c-66b) q

Let there be seven series of squares¹ commencing with seven squares and ending with one³, arranged one below

The text of the verses 63c to 66b describes the method of drawing the mathematical graph which is devised to indicate *naşta* and *uddişta*. *Naşta* is a technical name of the musical problem in which what is given is the number of the note-series in question, and what is to be found out is its tonal form giving the order of notes in it; while *uddişta* denotes the musical problem in which the tonal form of the note-series is given and its serial number is to be found out. This graph, called *khandametu* (permutation-indicator), helps to solve these two musical problems jointly known as '*naşta-uddişta*'.

The permutation-indicator is drawn by placing seven series of squares having seven, six, five, four, three, two and one squares each in due order one below the other. The graph is thus formed into the following pattern.



- 1. Kustha literally means a chamber or an inner apartment, a storeroom or space surrounded by walls. Here it is used in the sense of an enclosed space which in this case is in the form of a square.
- 2. Only the commencing and the ending number of the squares is given. What is implied is that if the first series has seven squares, the last will have one i. e., the second will have six, the third will have five, the fourth will have four, the fifth will have three, the
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the other.⁸ Let no. 1 be written in the first⁴ square of the first⁵ series among them and let there be zero in the other squares. Pebbles⁶, corresponding to the number of tones in the note-series' in question, may be placed in those very. squares.⁸ (63c-64)

The figures filled in the squares of the graph have been worked out and are based on the permutational calculus of the permutational note-series as demonstrated earlier; for example, it was observed in the case of the tetratonic series that the twenty-four note-series were clearly divided into four groups distinguishable from each other on the basis of the notes sa ri ga ma being placed into the fourth position respectively in groups of six note-series. Similarly, the monotone series forms a group by itself, the bitone series forms two groups, so to say i e., sa-ri and ri-sa. es forms three groups viz... The tritone se

series	fo	rm	s thr	ee grouj	pa v		ri ga sa
	sa	ri	ga	Sa	ga	ГI,	-
	ri	sa	ga	ga	sa	ri	ga ri sa

These note-series are formed into three groups where each note remains in the third position twice. Rest of the notes, it may incidentally be observed, are placed first in their ascending order and then in their descending order Similarly, the pentatonic series has five groups in each of which one particular note viz., pa in the 'sa ri ga ma pa' series remains in the fifth position, in the fifth group. This is done

sixth will have two, and the seventh only one, as counted from

- 3. This order will form into vertical columns of squares distinguished from top to bottom and not from bottom to top.
- 4. The first square, as counted from left to right in the series
- of squares drawn on the paper. The first series is the one that has seven squares and is on the 5.
- top of the graph. 6. | Pebbles are movable objects and are therefore instrumental in.
- the working process of the graph called khandament. The graph can also be utilised even without using the pebbles, by marking the squares appropriately. But the system of pebbles adopted here has the advantage of leaving the graph unaffected and thus rendering it usable for any number of times. However, if the squares of the graph are marked instead of using the pebbles, it could be used only once. Thus, the movable pebbles make the graph durable.

7. ¹ Vedya-tana is the note series the tonal form of which has to be

ascertained. However, the type of the series, such as mono. tone, bitone, tritone, etc. is given, and therefore the pebbles are to be placed in the squares in accordance with the number of tones constituting the particular note-series.

That is, in the squares of the first series of seven squares, 8. commencing from the first.

Let the sum total of the numbers of the last squares⁹ of the antecedent¹⁰ series be written below the zero in the subsequent series progressively in the respective squares¹¹, e. g., one (in the first instance); while in the squares below that¹² in vertical order, let the sum be multiplied by the

from right to left to keep the notes in the ascending order in the first instance. So also the hexatonics have six groups and the heptatonic or complete note-series have seven groups.

Now, the seven squares of the first horizontal series of the permutation-indicator represent the seven notes written from left to right, while the squares taken in their vertical order represent the number of groups of note-series in their permutational calculus; e.g., the first column has one square, for the monotone series has only one group; and similarly, the second column has two squares, for the bitone series has two groups of note-series. Again the third column has three squares, and so on with the seventh having seven squares representing its seven groups. This group indication is useful for solving the problems called nasta and uddista as will be explained presently.

Now, it will be easier to see how the different figures have been filled into the different squares of the indicator graph and what their significance is. The first column square represents the monotone series and has figure one written in it. In other words, in the first squares of the remaining six vertical columns (from top to bottom) is placed zero since the number of groups does not become manifest at the very outset as in the monotone series; e. g., in the bitone series the two groups sa ri and ri sa become groups only when they are two i. e, they are relative. The rest of the figures of the graph are arrived at in the following procedure.

The rule given in the text is that in the series of squares following or placed one below the other, one may write the total of the figure indicated in the last squares of the preceding series below the zero given in the overhead squares. That is to say that, if only one series of

9. The last squares of the series as counted from right to left.

- 10. Antecedent one or more than one series i. e, all the preceding series.
- 11. 'Urdhvadhah-sthita-panktisu' is quite significant and points out the squares placed one below the other in the series of vertical columns, below the zero of the respective columns.
- 12. 'That' refers to the square in which the sum of the numbers of the last squares of the series formed till then is given.

number of the square concerned¹⁸ and the resultant written below that.¹⁴ This is considered to be the "permutation-indicator" (khandameru).¹⁵ (65-66b)

squares is preceding, then the total of the last square of that series be written in the last square (from right to left) of the succeeding series, i. e., the 2nd. If however, there are two preceding series, then the total of the last squares of both the series may be given below the zero in the third square of the second series of six notes.

However, if there are many preceding series, then the total of the figures given in their last squares may be added in the squares and given below the respective zeros in the first series. For example, in the column-square below the first zero, (1) is written, for the total given in the last square of its preceding series is one. Then, in the next square of the series below 2nd zero, we have 2 as the total of (1+1=2) the last squares of the first and the second series. Again in the next square of the series below the third zero in the fourth column, we have 6 as the total of the last numbers of the first, second and the third series (1+1+4=6). Similarly, the fourth square in the fifth column shows 24 as the total of the preceding last squares (1+1+4+18=24); and so on That is how the figures of the second series are computed.

For computing the figures of the subsequent series (i. e., from 3rd to the 7th) another method is suggested which cuts short the above process, for it would be cumbersome if applied further; and it consists in multiplying the sum thus obtained in the squares of the second series by the number of the respective column squares thereunder. For example, to fill in the first square (from the left) of the 3rd (horizontal) series, we have figure 2 in the 2nd series above, and this being the 2nd square from it, multiplying 2×2 we get 4. 2 represents the sum total of the last squares of the preceding series' which is here multiplied by the number of the square to be filled'in. Similarly, to fill in the next square in the same series (below ma), we have the figure 6 as the sum of the last squares of the preceding series which is multiplied by 2 to yield 12. Likewise, in the 4th vertical column (below ma) the last

- 13. The square concerned is the one in which the sum arrived at is given and is to be counted vertically from top to bottom.
- 14. The square below the one in which the sum of the addition referred to is given i. e., the last square in the vertical series.
- 15. Khandameru is a mathematical graph that indicates what is known as nasta and uddista, the terms that are to be explained presently. Both nusta and uddista are finally related to the sequential extension of the note-series; thus this graph actually works as the indicator of note-series.

square of the 4th series bears the figure 18 in the graph. This is found as per the same rule, i. e., 6 is obtained in the 2nd series of the same column as the sum of the last squares of the preceding series which is multiplied by 3, being the number of the square below the series (indicative of the sum). Other figures can similarly be worked out. This process can also be understood from the following two charts :

Computation of 2nd series of the indicator (The additive process)

No. of column square in question left to right	Total of of the pr No. of series	The figure obtained		
1	1	1	1	
2	1,2	1+1	2	
3	1,2,3	1+1+4	6	
4	1,2,3,4	1+1+4+18	21	
5.	1,2,3,4,5	1+1+4+18+96	120	
6	1,2,3,4,5,6	1+1+4+18+96+600	720	

(Chart 24)

Computation of 3-7 series of the indicator

(The process of multiplication)

No. of	Figure in	gure in Sl. No. of the		Process of multiplication			
series	the 2nd column square	square computed vertically from below the zero	Multipli- cation	Result	No. of the column squares filled		
3rd	2	2	2×2	4	3rd		
4th	6	2	6×2	12	3rd		
	6	3	6×3	13	4th		
5th	24	2	24×2	48	3rd		
	24	3	24×3	72	4th		
	24	4	24 × 4	96	5th		
6th	120	2	120×2	240	3rd		
	120	3	120×3	560	4th		
	120	4	120×4	480	5th		
	120	5	120×5	600	6th		
7th	720	2	720×2	1440	3rd		
	720	3	720 × 3	2160	4th		
	7 20	4	720×4	2880	5th		
	720	5	720 × 5	3600	6th		
	720	6	720×6	4320	7th		

(Chart 25)

2. उद्दिष्ट-विधिः स्वरान्मूलक्रमस्यान्त्यात्पूर्वं यावतिथः स्वरः ।।६६।।

उद्दिष्टान्त्यस्तावतिथे कोष्ठे ऽधो लोष्टकं क्षिपेत् । लोष्टचालनमन्त्यात्स्यात्त्यक्त्वा लब्धं क्रमो भवेत् ।।६७।। लोष्टाक्रान्ताङ्कसंयोगादृद्विष्टस्य मितिर्भवेत् ।

(2) The procedure for finding out the indicated note-series (uddista) : (66c-68b)

Let the pebble be placed in the column-square¹ below⁸ according to the number of the last note⁸ of the indicated note-series⁴ obtaining backwards⁵ with reference to the last note of its original order.⁶ The pebble movement starts

Having drafted the form of the permutation-indicator, the author now proceeds to explain its working, laying down the procedure for arriving at the solution of the two problems known as nafa and uddif(a). He takes the latter first for the convenience of demonstration.

Uddista literally means 'that which is indicated', and in our context it implies the note-series indicated i. e., given; for example, "ma ga sa ri" is a tetratonic note-series and its tonal form is given, i. e., indicated; but its serial number in the permutational calculus of the tetratonic series is not given and is to be found out. That is how the name uddista i. e., 'indicated note-series' becomes significant. The procedure for finding out the serial number of a given note-series is explained hereunder with reference to the text.

Let the given note-series be "ma ga sa ri"; its original order would be 'sa ri ga ma." The last note of the indicated note-series in this case is ri which is placed 3rd from the last note ma as counted backwards in its original order. Since this is a four-tone series, the permutation-indicator would operate only for the first four columns (sa to ma).

<u>ч.</u> NW MU 2. 3.

- The expression 'column square' is indicative of the vertical order of the squares of the permutation-indicator.
- 2. Below the respective zero in the first series.
 - Last note as counted from left to right.
- 4. Uddista is literally the note-scries indicated, and what is sought to be found out from the permutation indicator is its serial number.
- 5. That is from right to left.
- 6. The order of the notes in the original series.

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with the last note⁷ and is ordered^h by dropping the note ascertained progressively. The number⁹ of the indicated The movement of the pebbles commences with the last note i. e., the last square which is fourth. Ri is 3rd with reference to the last note of the original order of the series. Therefore, the pebble of the fourth column will now be placed in the third square below the zero which indicates No. 12.) To take the next step, the note ascertained i. e., ri is to be dropped from the original order as well as from the indicated noteseries. So, the original order now obtained is "sa ga ma"; while the given series is "ma ga sa." Sa, now is /second with reference to the ma of the original order. So the second pebble, since this series is of three notes, will now be placed in the second square of the third column, which indicates \mathbf{A} . In the third step sa will drop away and the original order obtained will be "ga ma;" while the given series would be "ma ga." Its ga is in the first order (i. e., next to) with reference to the ma of the original order; therefore, the third pebble will be moved to the first column below zero in the second column since this is a bitone series now. This square indicates (1.) In the fourth step, even ga will drop away and what remains is the monotone-series of ma. Since in this case the original order and the indicated note-series are identical, so there will be no movement of the pebble and there is no square below the first which indicates 1. Thus, the total of the squares with pebbles is 18 (12+4+1+1). So the serial number of the note-series "ma ga sa ri" is 18th in the permutational extension of the four-tone series.

This procedure is summarised in the following chart :

Pebble-movement in the permutation-indicator for indicated tetratonic permutational note-series. The indicated note-series : "ma ga sa ri"

tep Original no. order	note of indicat-	The No. of the last-note	Th	e place o pebble	f the	Note
	cd series	with refe- rence to the origi- nal order	Col. no.	Square no.	Figure	
lst sa ri ga ma	ri	3rd _	4	3	12	ri –
2nd sa ga ma	sa	<u>3rd</u>	3	3_	4	sa
3rd ga ma	ga	2nd	2	2	1	ga
4th ma	ma	lst	1	1	1	

- 7. The last note of the note-series indicated i.e., from left to right.
- 8. That is, in the next step the original order is restored by dropping the last note of the note-series ascertained.

note-series would be obtained by adding up the figures (of the squares) covered by the pebbles.¹⁰ (66c-68b)

The number of the indicated series in the permutational extension of the tetratonic permutational note-series : 12+4+1+1=18.

Thus, the formula for finding out the number of the indicated note-series can briefly be restated as under in terms of action :

- (i) Find out the relative position of the last note of the indicated note-series with reference to the last note of its original order by counting from it backwards i.e., from right to left including the last note.
- (ii) Move the pebble into the corresponding square down below according to the result obtained in (i) i.e., as many squares down below as the number of the last-note obtained in (i).
- (iii) The pebble should be moved from the last note of the series.
- (iv) Having thus ascertained the numerical value of one note, that note be dropped progressively from the original order as well as the indicated note-series and the procedure (i) to (iii) repeated till the first note.
- (v) Add up the figures of the column squares into which the pebbles have been moved and the sum total will represent the serial number of the indicated note-series in its permutational extension.

This explains the procedure of working out the problem *uddista*. Now, an example from a complete permutational note-series is taken for a full demonstration, which is worked out as under in a tabular form :

- 1. Uddista (the problem), "ma ga sa ri dha ni pa" (i.e., the indicoted note-series).
- 2. Original order of the series : "sa ri ga ma pa dha ni".
- 3. Pebble movement of a complete permutational note-series.
- 4. Serial No. of the indicated note-series in the permutational extension of the complete series : total of column 3(c) i.e. (1440+0+0+12+4+1+1)=1458th.

10. The total of the numbers of the squares in which the pebbles are placed is the required number of the given note-series.

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Sl. No. of the steps taken	The relative position of the last note of the indicated series with reference to the last note of the original order i.e., the origi- nal-series				pebble mo its signific		Results obtain-		
1	2(a)	í 2(b)	2(c)	3(a)	3(b)	3(c)	4(a)	4(b)	
	The last note of the given series	The last note of the original or- der	Relative position of 2(a) with refe- rence to (right to left) 2(b)	No. of column (left to right)	No. of square to which pebble is moved		pied square The note omitted from the original order	The remaining or- der of notes in the original series	
1	pa	ni	3rd	7th	3r d	1440 :	p a	sa ri ga ma dha ni	
2	ni	ni	lst	Gth	no move- ment	,0	ni	sa ri ga ma dha	
3	dha	dha	lst	5th	-do-	0	dha	sa ri ga ma	
4	ri	ma	3rd	4th	3rd	12	ri	sa ga ma	
5	sa	ma	3rd	3rd	3rd	4	sa	ga ma	
6	ga	ma	2nd	2nd	2nd	1	ga	ma	
7	ma	ma	lst	lst	No move- ment	- 1	ma	nil	

(Chart 25)

3. नष्टविधिः

येरङ्कंर्नब्टसंख्या स्यान्मौलैकाङ्कसमन्वितैः ।।६८॥ तेषु लोष्टं क्षिपेन्मूले लोष्टस्थानमितं भवेत् । नष्टतानस्वरस्थानं ततो यावतिथे पदे ।।६९॥ अधःक्रमादस्ति लोष्टः स्वरस्तावतिथो भवेत् । क्रमान्तिमस्वरात्पूर्वो लब्धत्यागादि पूर्ववत् ।।७०।।

^{9.} This is the serial number of the particular note-series in its permutational calculus which is to be ascertained.

(3) The procedure for finding out the missing note-series (naşta) : (63c-70)

Let the initial¹ pebbles be placed in the respective² squares, the sum total of the figures of which would constitute the number⁸ of the 'missing note-series'⁴ inclusive of the figure 1 in the first column square.⁵ The note-positions⁶ of

Naşța is the name given to the note-series, the tonal form of which is lost sight of and is required to be discovered with the help of the noteseries indicator. The type of the note-series such as complete, hexatonic, pentatonic etc. indicative of the number of notes in it and its serial number in the permutational extension is given. Thus, the problem of nașța essentially consists in discovering the tonal form (i. e. the order of notes) of a given serial number of the permutational note-series lost to us. Nașta may therefore be called 'the missing note-series'.

The formula or the rule for discovering the tonal form of the given note-series implies the following procedure in terms of action :

- (i) Place the pebbles in the squares of the first horizontal series of the indicator in as many squares as there are the notes in the given series, from left to right.
- (ii) Move the pebbles into the column squares down below, so that the figures indicated by them when added make up the number of the given series.
- 1. The word 'initial' qualifying pebbles is indicative of the original position of the pebbles in the first series of the permutation indicator with the figure 1 in the left end first square and zeros in the others.
- 2. That is the squares in the vertical columns, on a pebble being placed in each of the series.
- 3. The serial number of a particular note-series obtaining in the permutational calculus.
- 4. Nasta of the text literally means 'that which is destroyed'; but the term is figuratively employed in a technical sense. Nasta refers to that note-series (tāna), the tonal form of which is lost sight of, but in respect of which the serial number and the type (i. e., monotone, bitone, hexatone, etc.) is given in order that its tonal form may be discovered with the help of the note-series indicator. Masta, therefore, essentially refers to a note series which is lost so far as its tonal form is concerned. That is why it has been rendered into English as the 'missing note-series.'
- 5. The first square at the left end of the first series.
- 6. The expression 'note-position' refers primarily to the relative position of notes ln the lost note-series; and secondarily to the position of the pebbles i. e., the squares in which they

the missing note-series are to be determined from the pebblesquares', the serial number of the squares down below⁸ being indicative of the relative backward⁹ position of the

- (iii) Every column is indicative of a particular note. The serial number of the square into which the pebble is moved from the top indicates its relative position in the given series when compared to the last note of the original order. So place it accordingly.
- (iv) Drop the note ascertained from the original order as well as the given note-series out of view and repeat the procedure laid down in (i) to (iii), till the position of the first note of the series is discovered.
- (v) Place the notes in their relative order, as ascertained and the 'missing note-series' is found.

Now this procedure is demonstrated with an example as follows :

- (i) Given particulars :
 - (a) Serial No. 18 of the tetratonic series.
 - (b) Note-series indicator with four column-squares.
- (c) Original order : sa ri ga ma.

(ii) Action :

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1. Place the pebbles initially in the squares of the first series indicating 1 and 3 zeros.

2. Deduct 1, the figure of the left end square of the first series which is essentially to be taken from 18, the serial number of the series (18-1)=17. So we have to add up to 17. Therefore, take 12 from the 3rd sq. of column 4 as the next figure exceeds our requirement.

3. Then deduct 12 from 17 and we have 5 yet to add up. Take 4 from the 3rd square of column 3

4. Then deduct 4 from 5 and we have 1 left to be added. 1 is available in square 2 of column 2. Square 1 of column 1 is already taken into consideration.

are moved to indicate the order of notes in the 'missing noteseries.' Thus, there would be as many pebbles as there are notes in the series.

- 7. The pebble-squares are the squares in which the pebbles are initially lodged Plural expression is used for the abstract singular of the text to bring out its actual implication.
- 8. Down below in the vertical columns i. e., the squares into which the pebbles are moved.
- 9. Backward order is from right to left.

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respective notes with reference to the last note of the original order¹⁰; while the rule for dropping the ascertained note etc.¹¹ would apply as b efore.¹² (68c-70)

5. We get these numbers in the series 1-2-3-3 corresponding to the serial number of squares in the respective columns. Now relate this series to the original order "sa-ri-ga-ma". Place ri as the last note of the 'missing note-series', for it is 3rd from ma, the last note of the original series.

6. Drop ri and restore the original order to "sa-ga-ma" and the numbers in the series to 1-2-3 Then repeat the process.

7. Place sa anterior to ri in the process of finding out the 'missing note-series' as sa is 3rd from ma.

8. Drop so and 3 respectively from the original order and the numerical series, and then restore them to "ga-ma" and 1-2 respectively and repeat the process.

9. Place ga anterior to "sa-ri" discovered through the process, for ga is 2nd to ma in the original order and corresponds to the figure 2 in the given numerical series. So we get "ga sa ri".

10. Drop ga from the original order and 2 from the numerical series. Now we are left with ma which corresponds to 1 of the numerical series and the left-end square of the 1st series i. e., the first column square. So put ma anterior to "ga sa ri" already obtained. We get "ma ga sa ri".

corresponds to its given serial number 18 in the tetratonic series.

It will be observed that wherever the original order coincides with the numerical series the note-position of the tone in question remains the same.

An example of a complete permutational note-series is also demonstrated in the following chart.

(i) The problem : To find out the tonal form of the 'missing note-series' of heptatonic type bearing serial No. 1000.

10. The original order corresponds to the murchana-series.

- 11. At every step as in the case of *uddista*, i.e., the process of the indicated note-series, the note ascertained would be dropped out of view.
- 12. 'S' infers that 'ctc.' in the text is indicative of the direction that, with the 'missing note-series' of, say five notes, the permutation indicator will have five series of square-columns, that of six notes will have six and that of seven will have

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(ii) The original order : "sa ri ga ma pa dha ni".

(iii) Procedure in action.

Discovering the 'lost note-series' of complete permutational note-series

	squa	res 1000+		ive pos of notes		Effect o	of action	Order of discovered notes
444	1	10004		2			3	4
Col.	Sq.	Figure	Last	Corres	pond-	Note	Order	1
No.	No.		note	ing no	ote ol		of the	
				given		ed	origina	1
				found		1	series	
			nal order		հ)		restored	
(a)	(b)	(c)	(a)	(t)	(a)	(b)	
(-)	(~)	(*)			Posi-			
				-1010	tion			
			1	(i)	(ii)		ļ	
7	2	72 0	ni	dha	7th	dha	sa.ri.ga ina-pa-	a 000000 dha ni
6	3	240	ni	ma	Gth	ma	sa-ri-ga pa-ni	a- 00000 ina dha
5	2	24	пі	ра	5th	ра	sa-ri-g ni	a- 0000 pa-ma-dha
4	3	12	ni	ri	4th	ri	sa-ga-t	ni 000 ri-pa-ma-dha
3	2	2	ni	ga	3rd	ga	sa-ni	00 ga ri-pa-ma-dha
2	2	1	ni	sa	2nd	sa	ni	0 sa-ga-ri-pa-ma dha
1	I	1	ni	лі	lst	ni	_	ni-sa-ga-ri-pa-ma-dh

(Chart 26)

(iv) Thus the 1000th note-series is discovered to be "ni-sa-ga-ripa ma-dha" in the complete series.

•Explanation : The computation of this column of the chart is explained as under, step by step :

(i) Deduct 1 of the first square column which is essentially to be taken 1000 - 1 = 999, Now we have to make up the total for 999.

(ii) Take 720 in column 7 as the next square below given 1440 which exceeds 999. Deduct 720 from 999 (999-720=279). Thus we have to add up to 279 now.

(iii) Take 240 from column 6 for the next square offers 360 which exceeds 279. Now we have (279-240 =) 39 to add up.

(iv) Similarly, take 24 from column 5 and we have (39-24=) 15 more to add up.

(v) Then take 12 from column 4 and we have (15-12 =) 3 more to add up.

(vi) Then take 2 from column 3 and we have 1 more to add.

(vii) Finally take 1 from column 2 and get the columnwise total as 720+240+24+12+2+1+1=1000.

4. खगडमेरुत एकस्वरादितानानां सङ्ख्या-परिज्ञानोपायः तानस्वरमितोर्ध्वाधःपङ्क्तिगान्त्याङ्कमिश्रणात् । एकस्वरादितानानां संख्या संजायते क्रमात् । १७१।।

(4) The number of permutational note-series in each of the series as shown by the permutation-indicator : (71)
 The number of note-series in monotone¹ etc. is computed by adding up the figures of the last column-squares²

The note-series indicator does not merely show the indicated noteseries and the 'missing note-series', but it also informs us with regard to the total number of note-series in each of the different types such as heptatonic, hexatonic, monotonic, etc.

As many notes there are in a given note-series (e. g. seven in the complete and one in the monotone series) so many end-squares of these columns will be taken into consideration and figures indicated by them when added up would in their sum-total indicate the number of note-series in that type.

The following chart shows the working of this relationship.

----The number of note series in each type derived from the permutation-indicator

The final note of the series in its ori- ginal order	type of the series	r		last c s S. No of las	olumn qs.	e Sum total o squares Figures ad f e ded	
sa	Monotone series	1	1	lst	1	1	
ri	Bitonic "	2	2	2nd	1	1+1	2.
ga	Tritonic "	2 3	2 3	3rd	4	1+1+4	6
ma	Tetratonic "	4	4 5	4th	18	1+1+4+18	24
ра	Pentatonic "	5	5	4th	96	1+1+4+18	
						+96	120
dha	Hexatonic "	6	6	5th	600	1+1+4+18	
						96+600	720
ni	Complete or					•	
	heptatonic "	7	7	7th	4320	1+1+4+18	
	-					96+600	
						+4320=	5040

1. In each type of the permutational note-series such as monotone, bitone, hexatonic, complete, etc.

2. The squares at the bottom and of the vertical series arranged into the columns of the permutation-indicator.

corresponding respectively⁸ to the notes in the series.⁴ (71)

It will be observed that every total incorporates the total of its antecedent squares. Thus, in effect, to find out the total number of note-series of a particular type what may essentially be taken into account is the figures indicated in the squares just below the zero and the last squares of the respective columns, as the squares immediately below the zero indicate the total number of the preceding series. For example, the total number of the complete permutational note-series is found to be 5040, but this figure is composed of the figures shown in the squares immediately below the zero of the 7th column as the 7th. square i. e., 720+4320=5040. So also the figure 720 is composed of 120+600=720.

Incidentally, this shows that the zeros placed in the first squares β of the columns are symbolic of the figures indicated into the last squares of the antecedent columns and are therefore identical with them. That is how the zeros become significant.

It may now be observed that the *Khaudameru* i. e., the permutation-indicator has a three-fold function viz., (i) to find out serial number of the note-series indicated, (ii) to discover the tonal form of a given number of note-series, and (iii) to ascertain the total number of note-series in each of the seven types of permutational note-series.

(vii) शुद्धतान-नामानि

1. षड्जग्रामस्थ-षाडव-शुद्धतानाः

अथात्र शुद्धतानानां नामानि व्याहरामहे । अग्निष्टोमो ऽत्यग्निष्टोमो वाजपेयश्च षोडशो ।।७२।।

पुण्डरीको ऽश्वमेधश्च राजसूयस्ततः परः । इति स्युः षड्जहीनानां सप्त नामान्यनुक्रमात् ।।७३।। स्विष्टकृद्बहुसौवर्णो गोसवश्च महाव्रतः । विश्वजिदब्रह्मयज्ञश्च प्राजापत्यस्तु सप्तमः ।।७४।।

3 & 4. Each column is indicative of a note i. e., the first column square for sa, the second for ri and so on. So the figures of these last column-squares only have to be taken into account, the notes pertaining to which go to constitute the series in question. Series denotes the note-series.

क्षमाबृषभहीनानां तानानामभिधा इमाः । अश्वक्रान्तो रथक्रान्तो विष्णुक्रान्तस्ततः परः ।।७४।। सूर्यक्रान्तो गजक्रान्तो वलभिन्नागपक्षकः । इति पश्चमहीनानां संज्ञाः सप्त क्रमान्मताः ।।७६।। चातुर्मास्यो ऽथ संस्थाऽऽख्यः शस्त्रश्चोक्थश्चतुर्थकः । सौत्रामणी तथा चित्रा सप्तमस्तू.द्भिदाह्वयः ।।७७।। संज्ञा निषाबहीनानां षाडवानामिमाः क्रमात् ।

(vii) The names of the combinational note-series : 72-90

(a) The hexatonic combinational note-series of the sadjagrāma : (72-78b)

Now, we give herewith the names of the combinational¹ note-series. (72ab)

1. The names of the seven note-series devoid of sadja respectively² are—agnistoma⁸, atyagnistoma, vājapeya, sodašī, pundarīka, ašvamedha and rājasūya. (72c-73b)

2. The names of the note-series devoid of rsabha respectively are—svistakit, bahusauvarņa, gosava, mahāvrata, višvajit, brahmayajña and prajāpati. (73c-75b)

3. The seven names for (the note-series) omitting pañcama are respectively considered to be asvakrānta, rathakrānta, vişņukrānta, sūryakrānta, gajakrānta, valabhit and nāgapakşaka. (75c-76)

4. The names for the hexatonic (combinational noteseries) eliminating nişāda respectively are cāturmāsya, samsthā, sāstra, uktha, sautrāmaņī, citrā and udbhid. (77-78b)

Having dealt with the permutational note-series in great detail, the author now incidentally proceeds to give the names of the significant combinational note-series with a view to refer to their merit.

He takes only the hexatonic and the pentatonic note-series of both the grama-s respectively, and first he gives the names of the hexatonic series and then the pentatonic series.

;

3. This and the following names pertain to vedic sacrifices. These names pertain to the note-series of the sadja-grama.

मध्यमग्रामस्थषाडवशुद्धतानाः

सावित्रो सर्वतोभद्रसंज्ञकः ।।७८।। चार्धसावित्री आदित्यानामयनश्च गवामयननामकः । सर्पाणामयनः कौणपायनः । सप्तम: षण्ठ: नामानि षड्जहीनानां तानानामिति मेनिरे ॥७९॥ अग्निचिद् द्वादशाहश्चोपांशुः सोमाभिधस्ततः ; अश्वप्रतिग्रहो वहिरथाभ्यूदयसंज्ञकः ॥८०॥ ऋषभेण विहीनानामिति नामानि मन्वते । सर्वस्वदक्षिणो दोक्षा सोमाख्यः समिदाह्वयः ॥ ५१। स्वाहाकारस्तनुनपात्ततो गोदोहना मतः । इति गान्धारहीनानां क्रमात्संज्ञाः प्रचक्षते ॥ ५२॥

(b) The hexatonic combinational note-series of the madhyamagrāma : (78c-82)

5. The names of the note-series¹ climinating şadja are respectively known to be—sāvitrī, ardha-sāvitrī, sarvatobhadra, ādityāyana², gavāmayana³, savpāyana⁴ and kauņapāyana.⁵ (78c-79)

- 1. The (specific) combinational note-series of the madhyama-grama.
- 2. The expression 'adityanam ayanah' of the text has been rendered as adityayana for semantic considerations; but it needs an elaboration. Aditya has several meanings such as the sun, the dwarf incarnation of Vişnu, god in general, and so on. But since here the plural is used we may take it etymologically in the sense of 'the sons of Aditi' i. e., the gods. Ayana too has several connotations such as the path, the way, the passage of the sun, and abode etc. of which the last one seems to be appropriate in this context. So the expression as a whole would literally mean 'the abode of gods'.
- 3. The expression gavamayana similarly signifies 'the abode of cows'.
- 4. Also the expression sarpāyaņa is a compound rendering of sarpāņāmayana in the text which literally means the abode of serpents.
- 5. Kaunapa literally means a goblin, a demon. So, kaunapayana literally significs the abode of demons.
 - 15

^{1.} Suddha of the text.

^{2.} That is in the order of murchana-series.

3. षड्जग्रामस्थौडुवशुद्धतानाः

इडा पुरुषमेधश्च श्येनो वज्त इषुस्ततः । अङ्गिराः कङ्क इत्येताः सपहीनाभिधाः क्रमात् ॥ ५ ३॥ ज्येतिष्टोमस्ततो दर्शो नान्द्याख्यः पौर्णमासकः । अश्वप्रतिग्रहो रात्रिः सौभरः सप्तमः स्मृतः ॥ ५४॥ एता निषादगान्धारहीनानामभिधाः क्रमात् । सौभाग्यकृच्च कारीरी शान्तिकृत्पुष्टिकृत्तथा ॥ ५४॥ वैनतेयोच्चाटनौ च वशीकरणसंज्ञकः । पञ्चमर्षभहीनानां तानानामभिधा इमाः ॥ ५६॥

6. The names of (the note-series) devoid of rşabha are believed to be—agnicit, dvadasāha, upāmsu, soma, asvapratigraha, barhi and abhyudaya. (80-81b)

7. The names of (the note-series) devoid of gandhara are respectively said to be sarvasvadaksina, dikşā, soma, samit, svahākāra, tanūnapāt and godohana. (81c-82)

(c) The pentatonic combinational note-series of *sadja-grāma* : (83-86)

1. The names of (the note-series)⁶ climinating sadja and pañcama respectively are as under :

Idā, puruşamedha, syena, vajra, işu, angirā and kanka. (83)

2. The names of (the note-series) omitting nişāda and gāndhāra respectively are jyotistoma, darša, nāndī, paurņamāsa, asvaprati-graha and saubhara. (84-85b)

3. The names of the note-series leaving out pañcama and rsabha respectively are--saubhāgyakīt, kārīrī, sāntikīt, pustikīt, vainateya, uccātana and vasīkaraņa. (85c-86)

6. These note-series pertain to the sadja-grama.

4. मध्यमत्रामस्थोड्वशुद्धतानाः

त्रैलोक्यमोहनो वीरः कर्न्दर्पबलशातनः ॥८७॥ शङ्खञ्चूडो गजच्छायो रौद्राख्यो विष्णुविक्रमः । तानानां रिघहीनानां नामान्येतान्यनुक्रमात् ॥८८॥ भैरवः कामदाख्यश्चावभृथो ऽष्टकपालकः । स्विष्टकृच्च वषट्कारो मोक्षदः सप्तमो मतः ॥८९॥ संज्ञा निषादगान्धारहीनानामिति संमताः ।

(viii) शुद्धतानानां वैदिकनाम्नां तत्त्वज्ञफलम् यद्यज्ञनामा यस्तानस्तस्य तत्फलमिष्यते ॥९०॥

(d) The pentatonic combinational note-series of the madhyama-grāma : (87-90b)

1. The names of the note-series eliminating rsabhu and dhaivata respectively are trailokyamohana, vira, kandarpabalasatana, sankhacuda, gajacchāya, naudra and visņuvikrama. (37-88)

2. The names of the note-series devoid of nişāda and gāndhāra are believed to be bhairava, kāmada, avabhŗtha, asţakapālaka, svistakrt, vasatkāra and mokşada. (89-90)

(viii) The functional purpose of the vedic names of combinational note-series : 90cd

It is believed¹ that the note-series² bearing the name of a particular vedic sacrifice is effectual in bringing about the corresponding⁸ benefit. (90cd)

^{1.} By the ancients, the preceding music-authorities.

^{2.} The combinational note-series are meant.

^{3.} That is, if the note-series bears the name of *alvamedha* sacrifice, it would bring about the benefit afforded by that sacrifice, provided it is appropriately employed.

(ix) गान्धवें गाने च शुद्धकृटतानानामुपयोगः गान्धवें मूर्च्छनास्तानाः श्रेयसे श्रुतिचोदिताः । गाने स्थानस्य लाभेन ते कूटाश्रोपयोगिनः ॥९१॥

(ix) The specific use of the combinational and permutational note-series in gāndharva and gāna: 91

In the context of $g\bar{a}ndharoa^4$, the $m\bar{a}rcchan\bar{a}s^5$ and the combinational note-series have been ordained in the vedic lore⁶ for the attainment of beatitude; while in $g\bar{a}nam^7$, these along with the permutational note-series are useful in obtaining sthāna⁸. (91)

The commentators do not offer any explanation with regard to the names of various vedic sacrifices having been attributed to the different note-series. However, it seems that it is an extension of the basic attitude of the vedic tradition towards all aspects of human activity. This attitude was responsible for the formulation of the four upaveda.s (Ayurveda or Arthasastra, Gandharvav.da, Dhanurveda and Sthāpatyaveda), the fifth veda-s (Muhābhārata and Nātyaveda), the six Vedaiga-s etc.

- 5. 'K' thinks that only standard murchana-s are meant.
- 6. Śruti in this context signifies any vedic passage. 'K' includes the smfti-s also in its significance.
- 7. Gana is the counterpart of gandharva, later known as dest (regional) music which was much more liberal and rich in variety. Since kūta-tūna (permutational note-series) has not been spoken of by Bharata, Šārngadeva specificatly limits it to non-gandharva music.
- 8. Sthana has been interpreted by 'K' as adharasruti (note-sruti) of svara, whereas 'S' interprets it as sthaya (a melodic phrase). The interpretation of 'K' is relevant to murchana and suddhatana and that of 'S' to ku(a-tana which serves as the canvas for melodic diversity.

श्त्रथ पञ्चमं साधारगाप्रकरगाम्

(i) द्विंविर्ध साधारणं, तत्र स्वरसाधारणम् साधारणं भवेद् द्वेधा स्वरजातिविशेषणात् । स्वरसाधारणं तत्र चतुर्धा परिकीर्तितम् ।।१।। काकल्यन्तरषड्जैश्च मध्यमेन विशेषणात् ।

Section 5 OVERLAPPING (Sādhāraņa)

(i) Twofold overlapping and the overlapping in noteintervals : 1-2b

Overlapping $(s\bar{a}dh\bar{a}rana)$ is twofold as it pertains¹ to the tones (*svara-s*) and to $j\bar{a}ti$ -s (the melodic types). Of these two, the overlapping of notes (*svara-sadharana*) is said to be

The concept of sadhāraņa, as applied to music is elucidated by Bharata on the analogy of kāla-sādhāraņa i. e., the overlapping of seasons: "If one perspires by remaining in the sun and yet feels cold staying in the shade neither the winter has ended, nor (can it be said that) the spring has arrived" (N. S., G. O. S. Vol. IV. 28. 34). This is an instance of the overlapping of the winter and the spring on their borders. Thus, the concept implies the conjunction of the end portion of a prior situation and the beginning portion of the following situation, creating a new situation that partakes partly of the characteristics of both and is thereby different from both of them individually. The application of this concept to the note-intervals is to be explained presently. According to Bharata the overlapping (sādhāraṇa) means the quality of a note rising between two (consecutive) notes (Eng. Trans. M. Ghosh, N. S. Vol. II, XXIII 35, p. 13).

The jati-sadhāraņa or the overlapping of melodic types is dealt with in Section VII; here we are concerned only with svara-sadhāraņa or the overlapping of note-intervals which is related to four notes in particular,

1. Literally, "as it is qualified by svara-s and jati-s".

^{4.} Gandharvam is the ancient name for what later came to be known as marga, when employed against the term desi (regional music) as explained by 'S'. These terms will be dealt with properly in the subsequent chapters of the text. (cf. Chapter IV 1-4).

fourfold as it is concerned² with kākali (nisāda) antara (gāndhāra), sadja and madhyama. (1-2b)

viz. kākali-nisāda, antara gāndhāra, sadja and madhyama. Thus, sādhāraņa (overlapping) is fourfold as it is qualified by these four notes and is respectively called kākali-sādhāraņa (the overlapping of kākali), antarasādhāraņa (the overlapping of antara), sadja-sādhāraņa (the overlapping of sadja) and madhyama-sādhāraņa (the overlapping of madhyama).

(ii) काकल्यन्तरसाधारणम्

साधारणः काकली हि भवेत्षड्जनिषादयोः ॥२॥ साधारण्यमतस्तस्य यत्तत्साधारणं विद्रुः । अन्तरस्यापि गमयोरेवं साधारणं मतम् ॥३॥

(ii) The overlapping of kākalī and antara: 2c-3

Since the overlapping $(s\bar{a}dh\bar{a}rana)^1 k\bar{a}kali$ occurs between nişāda and şadja, its² overlap³ $(s\bar{a}dh\bar{a}ranya)$ is known as overlapping $(s\bar{a}dh\bar{a}rana)^4$. The overlapping of antara is similarly conceived between gāndhāra and madhyama (2c-3)

In the process, technically known as the overlapping of kākalt, two notes are involved, and the author is here explaining how they are affected in this process, which elsewhere has also been referred to as the kakalisation of *nisāda*, and also why it is so called.

In the sadja-grama, nisada has two śruti-s (21st and 22nd) and sadja has four (1st-4th). It has already been explained (I. 3.40 ante) that in the kakalisation (kākalītva) of nisada, kākalī-nist da is formed by the conjunction of nisāda and sadja to the extent of two śruti-s of each, i. e., 21st and 22nd śruti of nisāda and the 1st and the 2nd śruti of sadja. Thus, kākalī is of four śruti-s and is situated equidistant from both nisāda as well as sadja. It partakes of the characteristics of both since it is constituted by two śruti-s contributed by each and is yet different from each of them since its note-śruti is different (2nd or 24th).

- 2. Literally, "as it is qualified by kakali, antara, sadja and madhyama".
- 1. Sadharanah qualifies kakalt.
- 2. That is, the overlapping in the formation of kakali.
- 3. Sadharanya is defined by 'K' as 'sadharanasya bhavah'' i. e., the essence or the quality of overlapping. It implies the sense of "overlapping-ness", though such a word is not in usage.
- 4. Sadharanam stands for the abstract noun sadharanyam.

However, $k\delta kal1$ -sādhāraņa affects the two notes nişāda and şadja quite differently; whereas it absorbs the note-śruli of nişāda, it does not affect the note-śruli of şadja and that is one reason why it is called $k\delta kal1$ -nişāda i. e., because it affects nişāda in categorically a different way in so far as it completely absorbs it.

Antara-sādhāraņa i e, the overlapping of antara is similarly conceived between gāndhāra and madhyama, affecting these two notes in the same way in the terms explained above; and consequently takes the name "antara-gāndhāra" on the pattern of "kākali-nişāda". Thus antara is constituted of the two śruti-s (8th and 9th) of gāndhāra and two śruti-s (10th and 11th) of madhyama, absorbing the note-śruti of the former and leaving the note-śruti of the latter un-affected.

(iii) काकल्यन्तर-प्रयोगविधिः

प्रयोज्यो षड्जमुच्चार्य काकलीधेवतौ क्रमात् । एवं मध्यममुच्चार्य प्रयुञ्जीतान्तरर्षभौ ॥४॥ षड्जकाकलिनौ यद्वोच्चार्य षड्जं पुनर्व्रजेत् । तत्परान्यतमं चैवं मध्यमं चान्तरस्वरम् ॥४॥ प्रयुज्य मध्यमो ग्राह्यस्तत्परान्यतमो ऽथ वा । अल्पप्रयोगः सर्वत्र काकलो चान्तरः स्वर: ॥६॥

(iii) The application of kākalī and antara: 4-6

After singing¹ sadja, kākalī followed² by dhaivata may be employed. Likewise after singing⁸ madhyama, antara and rsabha may be used. Alternatively, having sung⁴ sadja and kākalī one may return to sadja and after that move on to any succeeding⁵ note. Similarly, after employing madhyama and antara, madhyama should be taken before resorting to any succeeding note. Everywhere⁶ the notes kākalī and antara are rarely used. (4-6)

- 1, 3 & 4 Literally, 'pronouncing' or 'articulating'.
- 2. Krama implies 'due order' which, in this case, is the descending one.
- 5. According to 'K' the succeeding note has to be the immediately succeeding one barring the one that has to be eliminated; but 'S' thinks that any succeeding note implies any one of ri, ga, ma, pa and dha in case of the overlapping of kakali and pa, dha, ni, sa, and ri in case of the overlapping of antara i. e., all the notes subsequent to sad ja and madhyama respectively.
- 6. 'S' interprets it as jāti-rāga-s, etc.

- accuut a . Overiapping (auguaraya)

A CHIMCHE UL DYALA

(iv) षड्जमध्यमसाधारणम् निषादो यदि षड्जस्य श्रुतिमाद्यां समाश्रयेत् । ऋषभस्त्वन्तिमां प्रोक्तं षड्जसाधारणं तदा ॥७॥ मध्यमस्यापि गपयोरेवं साधारणं मतम् । साधारणं मध्यमस्य मध्यमग्रामगं ध्रुवम् ॥ ८॥ केशिके ते साधारणे केशाग्रवदणत्वतः । कैश्चिदुच्येते ते ग्रामसाधारणे बुधैः ॥९॥ एव

(iv) The overlapping of sadja and madhyama: 7-9

If nişāda takes resort to the first śrutis of şadja and rşabha to its last, it is called the overlapping of şadja. Similarly, the overlapping of madhyama is conceived in-between gāndhāra and pañcama. The overlapping of madhyama is definitely restricted to madhyama-grāma. (7-8)

These two¹ overlappings, being subtle like the point of hair, are known as *kaisika*² and are also called "the overlapping of grāma-s"³ by (some) scholars.⁴ (9)

The overlapping of *salja* and *madhyama* is analogous to the modification of these two notes The overlapping of *sadja* takes place when it yields its initial *sruti* to *nisāda* and its final *sruti* to *tsabha* retaining its 2nd-3rd *sruti-s* to itself. Similarly, the overlapping of *madhyama* takes place when *madhyama* yields its first *sruti* to *gāndhāra* and its fourth *sruti* to *paācama*, retaining only two *sruti-s* to itself. However, as pointed out by 'K', the longest *sruti*-interval conceived in the *grāma-s* is that of four

- 1. That is, the overlapping of *salja* and the overlapping of *madhyama*.
- 2. Kaišika literally means hair-like, i. e. very fine pointed, very subtle. The word (kaišika) is applied to şadja sādhāraņa and madhyama-sādhāraņa.
- 3. 'S' infers that since the overlapping of madhyama is limited to madhyama-grāma, the overlapping of şadja is also to be understood as applicable to şadja-grāma only. That is how he comes to justify the expression grāma-sādhāraņa i. e., the overlapping of grāma-s, as signifying the process to be indicative of grāma-s. However, this does not accord with the reason pointed out by 'K' for restricting the overlapping of madhyama to madhyama-grāma since fşabha or nişāda do not exceed the interval of four fruti-s in the overlapping of şadja if made applicable to madhyama-grāma.
- 4. This, however, does not seem to be the view of the author.

fruti-s and thereford a five-*sruti* interval is considered to be undesirable. So, if in the *sadja-grāma* the overlapping of *madhyama* is allowed, its *pañcama* will swell into a five-*sruti*-interval, which is undesirable. Therefore, the overlapping of *madhyama* is permitted only in *madhyama*grāma in which pañcama has three *sruti-s* only.

(v) जातिसाधारणम्

एकग्रामोद्भवास्वेकांशासु जातिषु यद्भवेत् । समानं गानमार्यास्तज्जातिसाधारणं जगुः ॥१०॥ जातिसाधारणं केचिद्रागानेव प्रचक्षते ।

(v) Overlapping of *jati-s*: 10-11b

MR

Among the *jāti-s* of the same *grāma* having the same tone as the fundamental note, the identical melodic presentation that obtains between them is called the overlapping of *jāti-s* by the noble ones.¹ The overlapping of *jāti-s* is identified by some with $r\bar{a}ga-s^2$. (10-11b)

Jāti-sādhāraņa is very briefly dealt with by Śārngadeva as well as by Bharata. 'K' thinks that it is based on varņa-sāmya, the identity in the patterns of tonal movement. 'S' cites suddha-kaišika-madhyama as one of the instances of jāti-sādhāraņa. Some details regarding the practice of jāti-sādhāraņa will be found in Section VII of this chapter.

- 1. The earlier authors such as Bharata, Matanga and others are meant.
- 2. 'S' cites raga śuddha-kaiśika-madhyama as an illustration.

Section 6 : Varņālankāra

(ascending), avarohi⁴ (descending) and sancari⁵ (circulatory). These arc defined as follows. (1)

When the same tone is put to a halting⁶ use it is known as the steady (tone) pattern. The two subsequent⁷ patterns

Varya literally means colour, caste or a syllable. In the context of music the word is metaphorically used in the sense that the particular manner and order in which the tones are employed contributes to their musical value, and also lends colour or taste to the composition. In short, the value of tone-pattern is comparable to the colour-pattern of the visual arts. But more than that varya in the sense of 'a syllable' is applicable in musical parlance; for, as the syllables go to form a meaningful word and then a group of words goes to form a sentence which is the significant unit of language, so also tones organised into a particular fashion go to form melodic phrases, that are the units of a melodic composition. The concept of varya is as old as Bharata, since he too has spoken of these four types of tonal patterns (varya-s), (cf. N. S. Kaśt ed. 29. 24).

The classification of tone-patterns, as pointed out by 'K' is based on the predominant element viz. if in the process of singing it is the steady pattern that is predominant, then the tonal pattern will be called the 'steady'. In other words, the four types of tonal patterns are not used exclusively.

Steadiness in the steady pattern is obtained by harping on the same tone for sometime. The nature of ascending and descending patterns is well described by their names. The sancart (i. e. the circulatory pattern) is defined by Matanga (as quoted by 'K') as under :

यत्र ताने सञ्चरन्ति स्वरा अन्त्यान्त्यसंहिताः । एकैक्शो दिशो वा स सञ्चारी वर्ण उच्यते ॥

4. Avarohi is descending in pitch, e. g. 'ni dha/pa ma ga ri sa' and so on.

- 5. Sañcari literally means moving around not having any fixed order. This is an admixture of the above three types and is illustrated in the order of such phrases as 'sa ri sa ri ga sa ni dha sa ri ga' and 'sa sa sa ni ma ma ni ma pa ni ri ri pa' etc,
- 6. Halting on a tone by repetition as 'sa sa sa'.
- 7. Subsequent to the steady (sthayi) pattern as mentioned in the previous verse i. e. the ascending (arohi) and descending (avarohi) patterns.

न्त्रथ षष्ठं वर्षालङ्कारप्रकररणम्

(i) वर्णलक्ष्मणं, तद्भेदाश्च गानक्रियोच्यते वर्णः स चतुर्धा निरूपितः । स्थाय्यारोह्यवरोही च संचारोत्यथ लक्षणम् ।।१।। स्थित्वा स्थित्वा प्रयोगः स्यादेकस्यंव स्वरस्य यः । स्थायी वर्णः स विज्ञेयः परावन्वर्थनामकौ ।।२।। एतत्संमिश्रणाद्वर्णः संचारी परिकीर्तितः ।

Section 6

VARŅĀLAŅKĀRA :

Tone-patterns and Embellishments

(i) The definition and classification of tone-patterns (Varna): 1-3b

Varna (tone-pattern) is the act of singing¹ which is demonstrated to be fourfold, viz. sthay² (steady), aroh⁸

In Section 4 the author has dealt with the permutations and combinations of tones, but in actual practice all of them are not actually employed in singing. Now, therefore, the author analyses the actual singing in the tonal patterns and melodic phrases as employed in the process of singing the musical compositions. Since in the composite concept of sangital instrumental music and dance, i.e. vadya and nitya essentially followed the vocal i.e. gana, the terminology of the entire musical theory is centered around vocal music; that is why, varna, i. e. tonal pattern is defined in the context of singing, though it is equally applicable to the instrumental music, or dance music and so on.

- 1. Gana-kriya rendered as the "act of singing" indicates the process of singing or the action of voice-production in the process of singing.
- 2. Sthayl literally means unvarying, e. g. 'sa sa sa' or 'ri ri ri' and so on.
- 3. Aroht is ascending in pitch, e. g. 'sa ri ga ma pa dha ni' and so on.

are signified by their names.⁹ The admixture of these (three) is known to be the circulatory⁹ pattern. (2-3b)

"When the tones move about in a note-series one by one or two at a time, or are delineated together joining the respective final notes (with the initial notes of the successive units), it is called *sañcārt varņa* (circulatory pattern). As in *Malavakaišika* : sā sā sa ni ma mā ni ma pa ni ri ri pā pa ni pā ni pā ni dha etc." Brhaddešī (p. 33) however reads as under :

> यत्र गोते सञ्चरन्ति स्यराः परस्परमन्तसंहिता । एनैकगो वा, स सञ्चारी वर्ण उच्यते ॥

Sancari varņa (circulatory pattern) is said to be the one in which the tones move about, mutually joining the final notes or one by one. As in *Mulavakaišika*: 'sā sā sa ni pa ni pa ni pa ni sā dha rī pā pa ni ni nī'.

The two versions of the definitions of saucari (circulatory pattern), the one ascribed to Matanga by 'K' and the other quoted from Brhaddes's are identical to a large extent and yet they are different in their net bearing.

(ii) अलङ्कारलचणं, तद्भेद्निरूपणं च (क) अलङ्कारलक्षणम् विशिष्टं वर्णसन्दर्भमलङ्कारं प्रचक्षते ।।३।।

(ii) The definition and classification of tonal embellishment.
 (a) The definition of tonal embellishment (alaikāra): 3c-64b

In keeping with the suggested sense of the term *alankāra* (ornament), the original concept under this name was quite comprehensive to include almost all types of tonal embellishments; for example even *kampa* (tremor) was included in *alankāra*. However, subsequently the signification of the word *alankāra* was restricted to "a melodic phrase-progression". The importance of ornamentation in Indian melody is well brought out by Bharata in the following verse:

Alankāra¹ (tonal embellishment) is said to be a specific arrangement² of tone-patterns. (3cd)

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शशिना रहितेय निशा विजलेव नर्दा लता विपुष्पेव। अविभूषितेव च स्त्री गीतिरलंकारहीना स्यात्॥ (N. S., G. O. S. Vol. IV 29. 45)

"Melody without ornamentation would be like a night without the moon, a river devoid of water, a creeper shorn of flowers and a lady without ornaments."

He is, however, careful also to caution against the excessive and improper use of embellishments as he says :

एभिरलंकर्तव्या गीतिवंगीविरोधेन । स्थाने चालङ्कारं कुर्यान्न खुरसि काञ्चिकां वष्येत् ॥ (N. S., G. O. S. vol. IV p. 131)

"Melody should be embellished by these (ornamentations) without disrupting the tone-pattern (varya), for ornaments are to be put on properly so that the girdle is not tied to the breast."

Thus even though a high premium is put on the employment of tonal embellishments, yet a certain propriety is essentially to be observed. That is why Ahobala defines tonal embellishment as "the delineation of the tone-patterns in a particular order" (अमेण स्वरसन्दर्भमलञ्जूार प्रवसते, (S. Pá 221).

Further, it may be observed that the tonal embellishments (alankāra-s) have been classified on the basis of the predominant tonepattern (varța), as Bharata has said that their formation depends on the tone-patterns of four types (cf. N.S. 29.24). Alankāra is said to be a combination of several melodic movements. Elucidating the definition of Śārńgdeva 'K' amplifies his statement to the effect that 'the particular manner of delineating the said (four types of) tone patterns in a melodic rendering is called tonal embellishment (alankāra)'.

The specificity of delineating the tone-patterns consists in the use of the prescribed kala (i.e. phrase of an alaikara) and so on (वैशिष्यं च नियतकसादियुक्त स्वम्)

1. Alankāra literally means an ornament, a decorative, an aid to beauty, a device of beautification.

^{8.} That is, these two patterns are so named that their names are descriptive of their nature and function, as it is quite obvious.

^{9.} Sañcāri varņa.

^{2. &#}x27;S' interprets varna-sandarbham of the text as varnasamudayam, i.e. a group of tone-patterns.

(ख) स्थायिवर्णगतालंकारोद्देशः तस्य भेदास्तु बहवस्तत्र स्थायिगतान्ब्रुवे । येषामाद्यन्तयोरेकः स्वरस्ते स्थायिवर्णगाः ॥४॥ प्रसन्नादिः प्रसन्नान्तः प्रसन्नाद्यन्तसंज्ञकः । ततः प्रसन्नमध्यः स्यात्पश्चमः क्रमरेचितः ॥४॥ प्रस्तारो ऽथ प्रसादः स्यात्सप्तैते स्थायिनि स्थिताः ।

(b) The definition and enumeration of the embellishments of the steady tone-pattern : 4-6b

Many, indeed, are its¹ varieties, of which I shall presently speak of those pertaining to the steady tone-pattern (*sthāyi-varņa*). Those (tonal-embellishments) that have the same tone in the beginning as well as in the end, pertain to the steady tone-pattern. The seven (embellishments) classified as belonging to the 'steady' (tone-pattern) are prasannādi², prasannānta³, prasannādyanta⁴, prasannaadhya⁵, kramarecita⁶, prastāra⁷ and prasāda⁸. (4-6b)

Śarugadeva, our author, defines and illustrates/sixtythree tonal embellishments (alankāra-s) but Bharata has given only thirty-three which include many other things apart from alankāra-s as they came to be understood in Śārugadeva's time. It may be admitted that theoretically there are infinite possibilities of tonal embellishments, but it seems only 63 were in vogue in his time. It is notable that Dattila, who is thought by some to be earlier than Bharata gives only 13 embellishments and some writers subsequent to Śārugadeva (cf. Ahobala's S. Pā) enumerate even more than 63. The distinguishing characteristic feature of the tonal pattern, as pointed out in the text and interpreted by 'K' is that its different kala-s (integral parts or phrases) commence and end with the same tone, though the repetition occurs in different registers (cf. 'K' on verses 3-8).

- 1. The pronoun 'it' stands for 'alankara' of the previous verse.
- 2. Lit. with prasanna (i. e. mandra) in the beginning.
- 3. Lit with prasanna in the end.
- 4. Lit. with prasanna in the beginning and in the end.
- 5. Lit. with prasanna in the centre.
- 6. Lit. devoid of order.
- 7. Lit. extension.
- 8. Lit. clarity. All these are explained in the following few verses.

(ग) मन्द्रतारलचरणम्

मन्द्रः प्रकरणे ऽत्र स्यान्मूर्च्छनाप्रथमः स्वरः ॥६॥ स एव द्विगुणस्तारः पूर्वः पूर्वो ऽथ वा भवेत् । मन्द्रः परस्ततस्तारः प्रसन्नो मृदुरित्यपि ॥७॥ मन्द्रस्तारस्तु दीप्तः स्यान्मन्द्रो बिन्दुशिरा भवेत् । ऊर्घ्वरेखाशिरस्तारो लिपौ त्रिर्वचनात्प्लुतः ॥८॥

(c) The significance of the terms-mandra, tara, etc. : 6c-8 -

In this section the word *'mandra'* signifies the first tone of the *mūrcchanā*, and that very tone when doubled¹ (in pitch) is (called) 'tāra'; or alternatively the tone in the preceding register becomes *'mandra'* and the one in the succeeding register (becomes) 'tāra'. Mandra is also called prasanna or

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Three terms viz. mandra, tora and pluta are defined here. Mandra and tara are presented as relative concepts, as indeed they are; and two alternative expressions have been offered to indicate their relation. Firstly, it is posited that mandra is the name given to the first note of the marcchana, while the eighth note, which is double the first one (in pitch range), is called tara. If the first tone of the marcchana belongs to the lower register and is called mandra, the same tone of the middle register would be called tara, but if the first note (mandra) of the marcchana is in the middle register, then the same note of the high register would become tara.

It is pertinent to note that the terms tars and mandra in this Section must not be understood as defined in verse 7 of Section 3 ante, they do not refer to the three registers as such. Obviously the middle register finds no mention in this context and therefore the terms mandra and tara refer to what may be called the lower and the higher register, the two covering the concept of three registers in their relative application. This would be clear from the other alternative view put forth by the author.

Alternatively, he says, the tone of the prior register may be understood as mandra (low) and that of the posterior register may be considered tara (high), the prior register being the one in which the commencing note of the phrase-progression (alahkara) falls. Consequently,

^{1.} Dviguya is the eighth tone (i. e. the first of the next higher octave).

mrdu, and tara is also called 'dipta'. In notation, mandra is indicated by an overhead dot, tara by an overhead vertical dash and 'bluta'² by the figure 3 (following the tone)⁸. (6c-8)

as 'S' elucidates, if the prior tone is in the lower register (in the scheme of three registers) it is called mandra and its tara will be in the middle register, but if the prior tone is (mandra) in the middle register, the subsequent tone (tara) will be in the high register. 'S' further distin. guishes this view from the first one by pointing out that, "accordingly the prior tone, in this view need not be the commencing note of the mūrcchanā" (cf. S. on 3-8, p. 154).

The terms mandra and tara in their/relative/sense may be rendered as 'lower' and 'higher' in the technical and the specific sense in this section.

It is interesting to observe that Bharata hardly seems to speak of the three registers (saptaka-s) in terms of mandra, madhya and tara. He no doubt speaks of the three sthana-s as the places of voice production in the context of the excellences of verbal expression (pathya-guna s) and kaku (intonation), e. g.

> त्रीणि स्थानानि-उरः कण्ठः शिरः इति... उरःशिरःकण्ठात् स्वरः काक्रः प्रवर्तते ॥ (N. S., G. O. S., IV. 17.106)

But the details of context in which the sound is to be produced respectively from the chest, the head and the throat show that these places of sound-production are not necessarily related in terms of pitch relations contained in the concept of registers, though pitch is naturally involved in kāku (cf. N. S., G. O. S. IV, 17. 107-108).

Again the terms dipta and mandra are defined by Bharata in the context of the embellishments of pathya :

> उच्चो दीप्तश्च मन्द्रश्च नीचो द्रतविलम्बिती। पठ्यस्यैते ह्यलंकारा लक्षणं च निबोधत ।।

(N. S., G. O. S., IV 17.113)

Ucca is defined as sirah-sthanagata (located in the head), dipta is defined as siralisthanagatataratara (that which is located in the head and is higher),

2. The term pluta is taken from the terminology of Sanskrit grammar. Vowels are considered to be of three degrees, viz., hrasva (short = 1 matra), dirgha (long=2 matra-s) and pluta (prolonged = 3 matra-s). 'S' interprets 'pluta' in this context as 'thrice'.

3. Literally, the expression 'trivacanath' would be rendered as 'on account of being pronounced thrice', and 'S' interprets it as स त्रिरूचारणीय राखये:, i. e. "Pluta is that which is to be pronounced (or produced) thrice."

Section 6 : Varnālaukāra

postel area mandra is urah-sthanagata (located in the chest) and nica is urah-sthanasthamandratara (located in the chest but lower).

Thus, he has high and higher (viz. ucca and dipta) on the one hand and low and lower (mandra and nica) on the other; but he has no mean point, the middle (madhya). Consequently the terms dipta and prasanna are equated with tara and mandra only in the relative order and not in the perspective of the three registers.

Abhinavagupta also defines dipanam as tarata and prasada as mandrata and thereby relates dtpli to be the acoustic phenomena involving the listener and the singer (cf. Abh. Bh. N. S., G. O. S. IV, p. 88).

Besides, the general atmosphere created by Bharata's expression with regard to pitch-relation suggests that the terminology had not as yet crystallised in his time and the two extremes of high and low pitch were recognised as a relative phenomenon without any reference to the concept of three registers though the three registers were known to Bharata. This may be compared with N. S. (G. O. S. IV 29.39) which speaks of tara, mandra and taratara as produced respectively from the throat, the chest and the head. This indicates that though the three registers were recognised, the terms in which this recognition found expression were conditioned by the tradition which supplied words only for the opposites.

(घ) स्थायिवर्णगतालंकार-निरूपणम्

प्रसन्नादिख्दोरितः ।

Nel 1. प्रसन्नादिः

तारे

सं सं सं ।

plant and (d) The embellishments of the steady tone-pattern¹: 9-13 (1) Prasannādi

If two lower (mandra) tones are followed by one higher (tāra) tone, it is known as prasannādi¹, e. g. ²'sa sa sa' (9ab)

The author now defines and illustrates the sixtythree /embellishments. The illustrations are given just by way of specimen and are based on uttaramandra, the first murchana of the sadja-grama.

Bharata defines Prasannādi as :

मन्द्रद्वयात्परे

16

क्रमशो दोपितो यः स्यात् प्रसन्नादिः स कथ्यते ।

(N. S., G. O. S. IV 29.33) 1. Literally, having prasanna (mandra or lower) in the beginning.

It has not been possible give tara-mandra signs in the English version.

and Dattila defines it as :

प्रसन्नं पूर्वमूच्चार्यं शनैः संदोपयेत् स्वरम् । प्रसन्नादिर्भवेदेवम् ।

Dattilam, 100

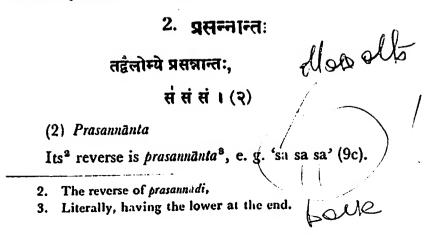
Sarngadeva has, at the very outset, taken the two terms dipla and tara as synonyms; but Ghosh and Nijenhuis render the word dipla. literally as 'brilliant'. Dipta is not only bright but also stimulated, or brightened when applied to tone (svara). Accordingly, the two definitions can be rendered as under.

(TLLSANDO (i) That which is gradually heightened is called prasannadi.

(ii) Having sung prasanna (mandra or low) in the first instance) if it is gradually heightened, it would be prasannadi.

Dattila's definition of *prasannadi* also makes it clear that Śārńgadeva's interpretation of the term *prasanna* as *mandra* (low) is in keeping with tradition. Nijenhuis renders it literally as 'clear', which seems to be technically inadequate as it has no explicit reference to pitch value. However, it is noteworthy that the above two definitions are indicative of the fact that Bharata and Dattila did not use the words *prasanna* and *dtpta* as totally dissociated from their general connotation, though the technical implication of their expression is precisely brought out by Śārńgadeva. Matańga was the first to equate *prasanna* with *mandra* as he says "मन्द्रसावेन प्रसावनिष्ठचारे i. e. the word *mandra* signifies the pitch (called) *prasanna* (lit. clear)."

It is notable in the above context that Mataúga illustrates prasannadi as sa riga ma pa dha ni, which presents his interpretation of Bharata's kramašah but does not correspond exactly with that of Sārúgadeva whose pattern is followed by Kumbha (S. Raj II. 1.3.29). This indicates a process of crystallisation.



3. प्रसन्नाखन्ता

,प्रसन्नद्वयमध्यगे ।।९।।

दीप्ते प्रसन्नाद्यन्तः स्यात्, सं सं सं सं र्. (३) 4. प्रसन्नमध्यः ,तारयोर्मध्यगे पुनः । मन्द्रे प्रसन्नमध्याख्यमलङ्कारं विदो विदुः ॥१०॥ सं सं सं । (४)

5. कमरेचितः

आद्यन्तयोर्मूर्च्छनाऽऽदिश्चेत्स्वरो ऽन्तर्द्वितीयकः । सैका कला ऽथ चेन्मध्ये स्तस्तृतीयचतुर्थकौ ।।११।।

(3) Prasannā dyanta

If the higher tone is placed in-between two lower tones, it becomes prasannādyanta⁴, e. g('sa sa sa' (9d-10a).

(4) Prasannamadhya

If, however, the lower is placed in-between the two higher tones, that embellishment is known to the experts as prasannamadhya⁵, c. g. 'sa sa sa' (10b-d).

(5) kramarecita

The embellishment (called) kramarccita, is described in three phrases⁶ as follows : the first tone of the mūrcchanā, in the first phrase, is placed in the beginning as well as at the

If the arrangement of tones in the different phrases of kramarecita is observed, it will be found that there is a progressive increase in the number of tones in-between the final 'sa'. This makes the prefix krama

- 5. Literally, having the lower in the middle.
- 6. Kala means an integral part or a phrase.

^{4.} Literally, having the lower in the beginning and at the end.

सा द्वितीया पञ्चमाद्यास्त्रयो ऽन्तश्चेत्कला परा । एवं कलात्रयेणोक्तो ऽलङ्क्षारः क्रमरेचितः ।।१२।। संरिसं संगमसं संपर्धानसं । (४)

6. प्रस्तारः

दोप्तान्तश्चेत्प्रतिकलं प्रस्तारः सो ऽभिधीयते । सिंरिस संगमस संपधनिस । (६) 7. प्रसादः

तारमन्द्रविर्थासात्तं प्रसादं प्रचक्षते ॥१३॥ संरिसं संगमसं संपर्धनिसं । (७)

end with the second (tone) in-between⁷; the third and the fourth (tones) are placed in-between in the second phrase; while in the third phrase the three tones commencing with *pañcama* are placed in-between⁸, c. g. 'sa ri sa, sa ga ma sa, sa pa dha ni sa' (11-12).

(6) Prastāra

If this^o ends in the higher (tone) in every phrase it is called *prastāra*, e. g. 'sa ri sā, sā ga ma sa, sā pa dha ni sa' (13ab).

(7) Prasāda

If the order of the lower and the higher is reversed in this¹⁰, then it is called *prasāda*, e. g. 'sa ri sa, sa ga ma sa, sa pa dha ni ša' (13cd).

to recita significant. This same is true of prastara and prasada. Thus, it would seem that the first four (i. e. 1 to 4) and the last three (i. e. 5 to 7) embellishments form two groups having a certain feature common to all the members. The first group of four is distinguished by the same note being in the beginning, in the middle and at the end, though with the difference in the placement of high and low registers.

- 9. 'This' refers to kramarecita.
- 10. 'This' refers to prastara.

(ङ) आरोहिवर्णगतालंकारोद्देशः

स्यातां विस्तीर्णनिष्कर्षौं बिन्दुरभ्युच्चयः परः । हसितप्रेङ्खिताक्षिप्तसन्धिप्रच्छादनास्तथा ।।१४।। उद्गीतोद्वाहितौ तद्वत्त्रिवर्णा वेणिरित्यमी । द्वादशारोहिवर्णस्थालङ्काराः परिकीर्तिताः ।।१५।।

1. विस्तीर्णः

मूर्च्छनाऽऽदेः स्वराद्यत्र क्रमेणारोहणं भवेत् । स्थित्वा स्थित्वा स्वरैर्दीर्घः स विस्तीर्णोऽभिधीयते ।।१६।।

सा री गा मा पा धा नी । (१) ॥ २१ हि NA

ह्रस्वैः स्वरैः स निष्कर्षो द्विद्विरुक्तैनिरन्तरैः । सस रिरि गग मम पप घध निनि । (२)

(e) The embellishments of the ascendant tone-pattern : (14-25)

The (12/embellishments pertaining to the ascendant tone-pattern (ārohī varņa) are known as vistīrņa, niskarşa, bindu, abhyuccaya, hasita, prenkhita, āksipta,) sandhipracchādana, udgīta, udoāhita, trivarņa and veņi. 14-15

(1) Vistīrņa

Where the ascent takes place from the first note of the mārcchanā in successive order, by notes elongated through repeated staying¹, it is called vistīrņa, c. g. sā rī gā mā pā dhā nī.² (16)

(2) Nişkarşa and gātravarņam

If short notes are employed twice at a time without break it² become nişkarşa, e. g. 'sa-sa ri-ri ga-ga ma-ma pa-pa

1. The significance of the original expression sthitva sthitva (repeating sthitva) is brought out by the word repeated, i. e. an elongated tone is analogous to a long vowel taking twice as much time as the short one. Accordingly, in notation the tones are written with long vowels. Thus after staying for twice as much time on a single tone one proceeds to the next higher tone.

2. It refers to the pattern of vistinga.

γMÞ

^{7 &}amp; 8. In-between the first tones of the murchana placed at the beginning and the end of the phrase.

त्रिइचतुर्वा स्वरोच्वारे गात्रवर्णमिमं विदुः ॥१७॥ ससस रिरिरि गगग ममम धघध निनिनि ॥ ससस रिरिरिरि गगगग मममम पपपप घघघघ निनिनिनि । (२) निष्कर्षस्येव मेदौ हो केचिदेतौ बभाषिरे ।

3. बिन्दुः प्लुतं ह्रस्वं प्लुतं ह्रस्वं प्लुतं ह्रस्वं प्लुतं स्वरम् ॥१८॥ कुर्वन्क्रमाद्यदा ऽऽरोहेत्तदा विन्दुरयं मतः । स३रि ग३म प३घ नि३ । (३)

4. अभ्युच्चयः एकान्तरस्वरारोहमाहुरम्युच्चयं बुधाः ।।१९।। सगपनि । (४)

dha-dha ni-ni'. If however, each note is pronounced thrice or four times, it³ is known as *gätravarŋam*, e. g. 'sa-sa-sa ri-ri-ri ga-ga-ga ma-ma-ma pa-pa-pa dha-dha-dha ni-ni-ni, sa-sa-sasa ri-ri-ri-ri ga-ga-ga-ga ma-ma-ma pa-pa-pa-pa dhadha-dha ni-ni-ni-ni'. These two forms, according to some are said to be the two varieties of *nişkarşa*. (17-18)

(3) Bindu

If the ascending tones are employed in the order of prolonged (*pluta*), short (*hrasva*), prolonged, short, prolonged, short and prolonged, then, it is considered to be *bindu* e.g. 'sa3ri ga3ma pa3dha ni3.' (18c-19b)

(4) Abhyuccaya

An ascendant tonal movement dropping alternative tones is called *abhyuccaya* by the sages, e.g. 'sa ga pa ni'. (19cd)

3. It refers to the pattern of niskarsa.

5. हसितः

यत्रैकोत्तरवृद्धाभिरावृत्तिभिरुदीरिताः । आरुह्यन्ते स्वराः प्राह हसितं तं शिवप्रियः ॥२०॥ स रिरि गगग मममम पपपपप धधधधधध निनिनिनिनिनिनि । (४)

6. प्रेङ्गितः

स्वरद्वयं समुच्चार्य पूर्वं पूर्वयुतं परम् । यदान्दोलितमारोहेत्प्रेह्वितो ऽसौ क्रमो ऽथ वा ।।२१।। सरि रिग गम मप पध धनि । (६)

7. आच्चिप्तः एकान्तरं स्वरयुगं ताटृक्पूर्वयुतं परम्। क्रमादारोहति यदा तदा ऽऽक्षिप्तं प्रचक्षते ।।६२।। सग गप पनि । (७)

(5) Hasita

Wherein the tones ascend, augmented successively by an increased repetition⁴, it is called *hasita* by the devotee of Siva⁶ c. g. 'sa ri-ri ga-ga-ga ma-ma-ma pa-pa-pa-pa-pa dha-dha dha-dha-dha ni-ni-ni-ni-ni-ni'. (20)

(6) Prenkhita

Having sung first two tones to begin with, if one ascends with a swing by taking the succeeding tone as preceded by the previous tone⁶, it is called *prenkhiva* or *krama* e. g. 'sa-ri ri-ga ga-ma ma-pa pa-dha dha-ni'. (21)

(7) Aksipta (FR RURANA J. S+ DIFAT

If one ascends in successive order by a pair of tones dropping one tone in-between⁷ and initiating the succeeding

- 4. That is, each successive tone will have one more repetition, as compared to the preceding one.
- 5. Sarngadeva is the devotee of Siva.
- 6. That is, in order to take the third tone one should first take the 2nd and then the 3rd immediately followed by it.
- 7. That is, to form the first pair the second tone in-between the first and the third is dropped and in the second pair the fourth is dropped in-between the 3rd and the 5th.

8. सन्धिप्रच्छाद्नः

त्रिस्वरा ऽऽद्या कला ऽन्ये च पूर्वपूर्वान्तिमादिमे । कले स्तस्त्रिस्वरे यत्र सन्धिप्रच्छादनस्तु सः ॥२३॥ सरिग गमप पधनि । (८)

9. उद्गीतः

यदा ऽऽद्याद्यस्त्रिरावृत्तः कलयोस्त्रिस्वरात्मनोः । तदोद्गीतः,

सससरिग मममपध। (९)

10. उद्वाहिता

,मध्यमेन तादृशोद्वाहितो मतः ।।२४।। सरिरिरिग मपपपध । (१०)

pair with the preceding one⁸, it is called *āksipta*, e. g. 'sa-ga ga-pa pa-ni'. (22)

(8) Sandhipracchādana

Where the first phrase (kalā) consists of three tones and the other two have the last tone of their preceding phrase as their first in a group of three tones, it is (called) sandhiptacchādana, e. g. 'sa-ri-ga ga-ma-pa pa-dha-ni'. (23)

(9-12) Udgīta, udvāhita, trivarņa and prthagveņī

When in two phrases of three tones each, the first tone is repeated thrice, it is udgita, e. g. 'sa-sa-sa-ri-ga ma-ma-ma-padha' (9) and in that, if the middle tone is repeated similarly, it is considered to be udvāhita, e.g. 'sa-ri-ri-ri-ga ma-pa-pa-padha' (10). If, however, the last (third) tone^o is repeated, it is described as trivarna, e.g. 'sa-ri-ga-ga-ga, ma-pa-dha-dha-dha' (10)

11. gani अन्त्यस्य तु त्रिरावृत्तौ त्रिवर्णं वर्णयन्त्यमुम् । सरिगगग मपधधधा । (११) 12. पृथग्वेशिः त्रयाणां तु त्रिरावत्तौ पथग्वेणिस्दीरितः ॥२५॥ ससस रिरिरि गगग, ममम पपप धधध । (१२) (च) अवरोहिवर्णगतालंकाराः अवरोहक्रमादेते द्वादशाप्यवरोहिणि । (छ) सञ्चारिवर्णगतालंकारोहेशः मन्द्रादिर्मन्द्रमध्यश्च मन्द्रान्तः स्यादतः परम् ।।२६।। व्यावृत्तस्खलितावपि । प्रसादोऽथ प्रस्तारश्च परिवर्ताक्षेपबिन्द्रद्वाहितोमिसमास्तथा 112011

If, however, the last (third) tone^o is repeated it is described as *trivarna*, e. g. sa-ri-ga-ga-ga, ma-pa-dha-dha-dha. (11) But, if all the three tones¹⁰ are repeated thrice (in the above pattern), it is called *prthagveni*,¹¹ e. g. 'sa-sa-sa ri-ri-ri ga-ga-ga ma-ma-ma pa-pa-pa dha-dha-dha' (12). (24-25)

(f) The embellishments of the <u>descendant tone-pattern</u>: 26ab

These very twelve in their descending order are known as <u>descendant embellishments</u>.¹² (26ab)

(g) The embellishments of the circulatory (sañcārī) tonepattern: 26c-53

The twentyfive embellishments based on the circulatory tone-pattern (suñcārī varņa) are named as follows : mandrādi, mandramadhya as followed by mandrānta; prastāra, prasāda and

10. Of each phrase.

12. That is, the ascendant embellishments as described above when ordered in the descendant movement.

^{8.} That is, for example in the second pair the succeeding tone after dropping the 4th tone is pa which is prefixed by the 3rd ga.

^{9.} Of each phrase.

^{11.} Cf. verse 15 ante where it is called *veni*, and S. Raj. Vol. I 2.1.3. 58-59 and K. R. 103 who follow suit. However, it is notable that 'S' calls it *pithagveni*.

प्रेङ्खनिष्कूजितश्येनक्रमोद्धट्टितरञ्जिताः । संनिवृत्तप्रवृत्तोऽथ वेणुश्च ललितस्वरः ॥२द॥ हुङ्कारो ह्रादमानश्च ततः स्यादवलोक्तितः । स्युः सञ्चारिण्यलङ्काराः पर्श्वावंशतिरित्यमी ॥२९॥

1. मन्द्रादिः

त्रिस्वरा ऽद्या कलैकैकमन्द्रत्यागेन चापराः । त्रिस्वराश्चेत्कला मन्द्राद्या मन्द्रादिस्तदा भवेत् ।।३०।। सगरि रिमग गपम मधप पनिध (१)

vyāvītta as well as skhalita; parivarta, āksepa, bindu, udvāhita, ārmi and sama; preikha, niskājita, syena, krama, udghatita and ranjita; sannivītta, pravītta and veņu; lalitasvara, hunkāra and hrādamāna followed by avalokita. (22c-29)

1. Mandrādi

When the first phrase of three tones beginning with the lower¹ one is followed by other similar² phrases formed by dropping the lower tone one by one⁸, then it becomes

1. The word lower is used in the technical sense in this section as already explained (vide verse 6 cd-8 ante). 'S' puts the three tones in the order 1, 3, 2. i.e. sa-ga-ri and so on, but there is no indication of this order of notes in the text.

• The text repeats the formation, viz. each phrase has to be of three tones and is to commence with the lower tone.

3. || That is, in the 2nd phrase sa is dropped, in the 3rd phrase ri is dropped, in the 4th phrase ga is dropped and finally, ma is dropped. So as a rule the lower tone is progressive. It may be observed here that the definition of this tone-pattern does not explicitly seem to correspond with the given illustration. The definition only prescribes that the first tone of every phrase of three tones will be lower (mandra) but does not at the same time lay down the order of the other two tones which is left to be inferred. Since the first tone is specified to be low, the implication is that the following two tones are not to be placed in their natural order and the specification with regard to the first one would be redundant 'S' has brought out this implication clearly by elucidating that the first phrase consists of three tones in the order of first, third and second etc. obviously his interpretation is inspired by the given illustration. But Kumbha has defined this tone-pattern in very clear and explicit terms which leaves no room for ambiguity. He says

2. सन्द्रमध्यः

ताः कला मन्द्रमध्यान्ताः क्रमाच्चेदपरौ तदा । मन्द्रमध्यो यथा---

गसरि मरिग पगम धमप निपध। (२)

3. मन्द्रान्तः

मन्द्रान्तो यथा--

रिगस गमरि मपग पधम धनिप । (३)

4. प्रस्तारः

त्याक्तान्तरं स्वरयुगं त्याक्तादारभ्यते पुनः ॥३१॥ युगं तादृक्समारोहेत्तया प्रस्तार उच्यते । सग रिम गप मध पनि । (४)

mandrādi⁴, e.g. 'sa-ga-ri ri-ma-ga ga-pa-ma ma-dha-pa pani-dha.' (30)

2, 3. Mandra-madhya and/mandranta

In these very phrases⁵ if the 'Tower' (mandra) is placed in the midst⁶ or at the end⁷ (the initial phrase) being followed by others in due order, then it is called mandramadhya or mandrānta, e. g. 'ga sa-ri ma-ri ga, pa-ga-ma dhama-pa ni-pa-dha' or 'ri-ga-sa ga-ma-ri ma-pa-ga pa-dha-ma dha-ni-pa, respectively. (31ab)

4. Prastāra

出現すり

When a pair of tones is formed by dropping the tone in-between them and is followed by another pair similarly formed but initiated by the tone omitted (in the previous

> "In mandradi there are five phrases of three tones each beginning with sa etc., while the third (tone) in each is placed in the middle (S. Raj. II 1. 3. 69). Here the order of all the three tones is explicitly laid down. Of course his definition and illustration both correspond to S. R. in substance.

- 4. Lit. having the lower tone in the beginning.
- 5. In all the five phrases illustrated above.
- 6. That is, the middle tone of (1) is placed in the beginning.
- The last (3rd) tone of (1) is placed as the 1st and the commencing tone.

5. प्रसादुः पूर्वः पूर्वः परस्योर्घ्वाधोवर्ती क्रियते स्वरः ।।३२।। यदा तदा प्रसादं तमाह श्रीकरणेश्वरः । सरिस रिगरि गमग मपम पधप घनिघ ! (४)

6. डयावतः

चतुःस्वरा कला तत्राद्यात्तृतीयं द्वितीयकात् ।।३३।। तुर्यं गत्वा ऽऽदिमं गच्छेदेवमेकैकहानतः । चतुःस्वराः परा यत्र स व्यावृत्तः स्मृतो बुधैः ।।३४।। सगरिमस रिमगपरि गपमधग मधपनिम । (६)

pair), and an ascent is made in this way, it is said to be *prastāra*, e. g. 'sa-ga ri-ma ga-pa ma-dha pa-ni'. (31c-32b)

5. Prasāda

When every⁸ preceding tone precedes as well as follows the next tone⁹, then it is *prasāda* as declared by Śrikaraņeśvara¹⁰, e.g. 'sa-ri-sa ri-ga-ri ga-ma-ga ma-pa-ma pa-dha-pa dha-ni-dha'. (32c-33b)

6. Vyāvītta

Where a phrase consisting of four tones proceeding from the first to the third, and then from the second to the fourth tone returns to the first¹¹ and is similarly followed by other phrases of four tones dropping a tone¹², one by one¹³, it is considered by the sages to be *vyāvrtta*, e.g. 'sa-ga-ri-ma-sa ri-ma-ga-pa-ri ga-pa-ma-dha-ga ma-dha-pa-ni-ma'. (33c-34)

8. The preceding tone of every phrase.

9. The implication is that every phrase will have three tones and the tone referred to as 'the next' will be the middle one.

10. Śārngadeva.

- 11. The tones are arranged in the order 1, 3, 2, 4, 1.
- 12. That is the second phrase will drop the first tone, the third will drop the second and the fourth will drop the third tone.
- 13. That is, omitting one tone progressively.

7. स्खलितः

कलां प्रयुज्य मन्द्रादेद्विरुक्तोर्ध्वस्वराग्विताम् । अवरुह्येत चेदेष स्खलिताख्यस्तदा भवेत् ।।३४॥ सगरिममरिगस रिमगपपगमरि गपमधधमपग मधपनिनिपधम । (७)

8. परिवर्तकः स्वरं द्वितीयमुज्झित्वा त्रिस्वरा ऽऽद्या कला यदि । त्यक्तादारभ्य तादृश्यो ऽन्यास्तदा परिवर्तकः ।।३६।।

सगम रिमप गपध मधनि । (द)

9. आक्षेपः

त्रिस्वराश्चेत्कलाः तदा ऽऽक्षेपः

पुर्वपूर्वत्यागोर्ध्वसंक्रमः ।

सरिग रिगम गमप मपध पधनि । (९)

7. Skhalita

Employing a phrase of *mandrādi*¹⁴ followed by the next tone¹⁵ as used twice, if one descends¹⁶, then it is called *skhalita*, e.g. 'sa-ga-ri-ma-ma-ri-ga-sa, ri-ma-ga-pa-ga-ma-ri, ga-pa-ma-dha-dha-ma-pa-ga, ma-dha-pa-ni-ni-pa-dha-ma'.(35)

8. Parivartaka

If the first phrase consisting of three tones barring the second one is followed by similar¹⁷ phrases starting with the omitted¹⁸ tones, then it is *paricartaka*, e.g. sa-ga-ma ri-ma-pa ga-pa-dha ma-dha-ni (36)

9. Āksepa

If the phrases of three tones progress in the ascending order, dropping the first tone¹⁹ of the preceding phrase, then

- 14. That is, 'sa-ga-ri'.
- 15. That is, ma after the first phrase.
- 16. Descends to the starting tone of the phrase.
- 17. Similarly dropping the second tone as counted from their first tone.
- 18. That is, second from the first tone of the phrase.
- 19. This would naturally apply only to the subsequent phrases and not to the first one.

10. बिन्दु!

अथ बिन्दुः स यत्र प्लुतमधः स्वरम् ।।३७।। क्रुत्वा ऽग्निवत्परं स्पृष्ट्वा ऽधः स्पर्शेनाखिलाः कलाः । स३रिस रि३गरि ग३मग म३पम प३धप ध३निध । (१०)

11. उद्दाहितः

कलायां त्रीन्स्वरान्गीत्वा ऽवरुह्यैकं पराः कलाः ।।३८।। यत्रैकैकोज्झिता गीतास्तद्वदुद्वाहितस्तु सः । सरिगरि रिगमग गमपम मपधप पधनिध । (११)

it is *āksepa*, c. g. 'sa-ri-ga ri-ga-ma ga-ma-pa ma-pa-dha pa-dha-ni'. (37a-c)

10. Bindu

'The bindu is that, in all the phrases of which, the first²⁰ tone is a prolonged²¹ one (*pluta*), the second one is slightly touched like fire²² and the first one taken once again, e.g. 'sa3-ri-sa ri3-ga ri ga3-ma-ga ma3-pa-ma pa3-dha-pa dha3ni-dha'. (37c-38b).

11. Udvāhita

Having sung three tones in a phrase and descended one²⁸, if the subsequent phrases formed similarly are sung dropping a tone one by one²⁴, that indeed is *udvāhita*, e.g. 'sa-riga-ri ri-ga-ma-ga ga-ma-pa-ma ma-pa-dha-pa pa-dha-nidha'. (38c-39b)

- 23. This would constitute the fourth tone of that phrase.
- 24. Dropping the initial tone of the previous phrase.

12 . ऊर्मिः

"Curring of a second second

मूर्च्छनाऽऽदेः स्वरात्तुर्यं प्लुतीकृत्याद्यमेत्य च ॥३९॥ तुर्यगाने कलेकंकहानाद्यत्रापरास्तथा । स र्ऊामः स्यात् सम३सम रिप३रिप गध३गध मनि३मंनि । (१२)

13. समः

स तु समः कला यत्र चतुः स्वराः ॥४०॥ तुल्यारोहावरोहैकैकहानादपरास्तथा । सरिगममग\रस रिगमपपमगरि गमपधधपमग मपधनिनिधपम । (१३)

12. Ūrmi

Starting with the first tone of a mūrechanā, taking a prolonged (*pluta*) fourth and returning to the first if (one) sings the fourth (in a phrase) with the other phrases following (similarly) by the loss of one²⁵ tone successively, it would be $\bar{u}rmi^{26}$, c. g. 'sa-ma3-sa-ma ri pa3-ri-pa ga-dha3-ga-dha-ma-ni3-ma-ni'. (39b-40c)

3ma•ni

13. Sama

Where the (different) phrases are (composed) of four tones each and proceed by equal ascent and descent omitting one tone by and by²⁷, there indeed it is *sama*, e. g. 'sa-ri-gama-ma-ga-ri-sa ri-ga-ma-pa pa-ma-ga-ri ga ma-pa-dha-dhapa-ma ga, ma-pa-dha-ni-ni-dha-pa-ma'. (40c-41b)

26. Literally a 'wave'.

^{20.} Though adhah literally means 'below', in the technical sense adhah and parah mean the preceding and the succeeding tones respectively.

^{21.} That is, the tone is to be sung for thrice the time taken by a single tone.

^{22.} As one removes the hand approaching fire as soon as it comes in contact with it, so slight is the touch.

^{25.} The lower and the initial tone of the previous phrase.

^{27.} The initial and the lower tone of the preceding phrase in successive phrasal order.

कला गतागतवती द्विस्वरेकेकहानतः ।।४१।। यत्रान्यास्तादृशः स स्यात्प्रेह्वः, सरिरिस रिगगरि गममग मपपम पघधप धनिनिघ । (१४)

15. निष्कूजित: , निष्कूजितः पुनः । प्रसादस्य कलां गीत्वा तत्कलाऽऽदेस्तृतीयकम् ॥४२॥ गत्वा ऽऽद्यगानाद्भ्वति, सरिसगस रिगरिमरि गमगपग मपमधम वधपनिप । (१४)

16. श्वेन:

,श्येनः संवादियुग्मकैः ।।४३।। क्रमात्सरिगमाद्यैः स्यात्, सप रिध गनि मस । (१६)

14. Prenkha

Where the phrases move forward and then backward²⁸ by two tones with the subsequent²⁹ phrases forming themselves similarly by dropping a tone by and by⁸⁰ successively, it becomes *preikha*, e.g. 'sa-ri-ri-sa ri-ga-ga-ri ga-ma-ma-ga ma-pa-pa-ma pa-dha dha-pa dha-ni-ni-dha.' (41c-4?b)

15. Nişkūjita

Having sung a phrase of *prasāda*³¹, and proceeding to the third (tone) from the initial (tone), if the initial is sung, it becomes *niskūjita*, e.g. 'sa-ri-sa-ga-sa ri-ga-ri-ma-ri ga-ma-gapa-ga ma-pa-ma-dha-ma pa-dha-pa-ni-pa'. (42b-43a)

16. Syena

Syena is (formed) by the consonant³² pairs³⁸ beginning respectively with sa, ri, ga and ma, c. g. 'sa-pa ri-dha ga-ni ma-sa'. (43b-44a)³⁴

- 28. In the order of ascent and descent.
- 29. The phrases following the first tone.
- 30. Dropping the initial note of the preceding phrase.
- 31. Phrases of *prasada* may be seen vide verse No. 33 ante and embellishment No. 5 in this series.
- 32. The consonance in this case consists in the interval of thirteen *sruti-s*, known as the *sadja-pañcama* relation.
- 33. Pairs of tones.
- 34. Verse 43 consists of one line only.

17. क्रमः

, कला द्वित्रिचतुःस्वराः । आद्यस्वराद्यास्तिस्नः स्युद्धितोयाद्यादयस्तथा ॥४४॥ यत्रासौ क्रम इत्युक्तः, सरिसरिगसरिगम रिगरिगमरिगमप गमगमपगमपध मपमपधमपधनि । (१७) 18. उट्घट्टितः , स तूद्घट्टित उच्यते । यत्र स्वरद्वयं गोत्वा पश्वमाच्चतुरः स्वरान् ॥४४॥ अवरोहेत्कला गायेत्तथेकंकोज्झनात्पराः । सरिपमगरि रिगधगमग गमनिधपम । (१८)

17. Krama

(The embellishment) in which there are three phrases consisting of two, three and four tones respectively commencing with the initial³⁵ tone and three (similar) phrases commencing with the second tone and so on³⁶, is called *krama*, e. g. 'sa·ri-sa-ri-ga-sa·ri-ga·ma, ri-ga-ri-ga-ma-ri-ga-ma-pa, gama-ga, ma-pa-ga-ma-pa-dha, ma-pa-ma-pa-dha-ma-pa-dha-ni.' (44b-45a)

18. Udghațțita

Where (in a phrase) after singing two tones,³⁷ one descends four tones from the fifth³⁸ and sings the subsequent phrase (similarly) by dropping one³⁹ tone in each case, it is said to be *udghattita*, e. g. 'sa-ri-pa-ma-ga-ri, ri-ga-dha-pama-ga-ga-ma-ni-dha-pa-ma'. (44b-46b)

- 35. The first tone of the murcchana.
- 36. Added to these two will be the three phrases commencing with the third tone and the three phrases commencing with the fourth tone.
- 37. Beginning with the first tone of the murchand,
- 38. Fifth as counted from the initial tone of a phrase.
- 39. The initial tone of the preceding phrase.
 - 17

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19. रज्जितः

द्विरुक्ता यदि मन्द्रान्ता मन्द्रादेः स्युः कलास्तदा ।।४६।। रञ्जितः,

सगरिसगरिस रिमगरिमगरि गपमगपमग मधपमधपम पनिधपनिधप । (१९)

20. सन्निवृत्तकप्रवृत्तकः , अथ भवदेष संनिवृत्तप्रवृत्तकः । यत्राद्यपञ्चमौ गोत्वा तुर्यात्त्रीनवरोहति ॥४७॥ क्रमात्कला सा यत्रान्यास्तद्वदेकैकहानतः । सपमगरि रिधपमग गनिधपम । (२०)

19. Ranjita

If the phrases are such that mandrādi⁴⁰ is sung twice followed by the 'lower'⁴¹ in the end, then it is rañjita, e.g. 'sa-ga-ri-sa-ga-ri-sa, ri-ma-ga-ri-ma-ga-ri, ga-pa-ma-ga-pa-ma-ga, ma-dha-pa-ma-dha-pa-ma, pa-ni-dha-pa-ni-dha-pa'. (46c-47a)

20. Samnivrtlapravrttaka

Where, having sung the first⁴² and the fifth⁴³ (tones) one descends by three consecutive tones from the fourth⁴⁴ (tone) in the first phrase, and where other phrases are similarly framed by dropping one tone⁴⁵ in each, it becomes samnivrtapravrttaka, e. g. 'sa-pa-ma-ga-ri, ri-dha-pa-ma-ga, ga ni dha-pa-ma.' (47a-48b)

- 40. This embellishment is based on the tonal embelishment called mandradi illustrated vide verse 22 ante, and numbered as 6.
- 41. The lower tone i. e. the initial of the phrase in this case.
- 42. The first of the murchana.
- 43. Ascending from first to the fifth tone.
- 44. The three tones to be counted from the fourth one; for the descent, as it is, is from the fifth.
- 45. The inital tone of the preceding phrase.

2.0 वेगु!

यत्राद्यः स्याद् द्विद्वितीयचतुर्थकतृतीयकाः ।।४८८।। सक्वत्कला ऽन्याश्चेकैकहानाद्वेणुरसौ मतः । ससरिमग रिरिगपम गगमधप ममपनिध । (२१)

22. जजितस्वरः

गोत्वा ऽऽद्यौ द्वौ चतुर्थं च यस्यां ताववरोहति ॥४९॥ सा कला ऽन्याश्च तादृश्यो यत्रासौ ललितस्वरः । सरिमरिस रिगपगरि गमधमग मपनिपम । (२२)

23. हुङ्गारः

आदिमेन कला यत्र द्विस्वरा ऽऽद्या गतागतैः ।।४०।।

21. Veņu

Where the (first) phrase is (formed) with the first tone^{4 *} (sung) twice and then the second, fourth and the third once, and is followed by other similar phrases dropping one tone in each case, it is considered to be *venu*, e. g. sa-sa-ri-ma-ga, ri-ri-ga-pa-ma, ga-ga-ma-dha pa, ma-ma-pani dha'. (48c-49b)

22. Lalitasvara

Having sung the first two tones⁴⁷ followed by the fourth, if one descends by those very (two) tones¹⁸ in a phrase, with the other similar⁴⁰ yhrases following, it is *lalitasvara*, e. g. 'sa-ri-ma-ri-sa, ri-ga-pa-ga-ri, ga-ma-dha-ma-ga, ma-pa-ni-pa-ma'. (19c-50b).

23. Humhāra

Where the first phrase is of two tones followed by the initial (tone) arranged in the forward and backward order⁵⁰,

- 46. The first tone of the preceding phrase.
- 47. The first two of the murchana.
- 48. That is, the first two of the phrase.
- 49. The rule that the other phrases would drop the first tone of the preceding phrase, though not stated, is implied in the illustration.
- 50. Forward inovement is ascending and backward movement is descending, sa to ri in the first phrase is as ascent and ri to sa is the descent.

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स्वरैरेकोत्तरं वृद्धेः स हुङ्कारो निगद्यते । सरिस सरिगरिस सरिगमगरिस सरिगमपमगरिस सरिगमपधपमगरिस सरिगमपधनिधपमगरिस (२३)

24. ह्वाद्मानः

ह्रादमाने प्रसन्नान्ता मन्द्रादेस्तु कला मताः ॥५१॥ सगरिस रिमगरि गपमग मधपम पनिधप ॥२४॥

25. अत्रवत्तोकितः

पदा ऽऽरोहे ऽवरोहे च स्वद्वितीयं परित्यजेत् । चतुःस्वरा समाला तदा स्यादवलोकितः ॥१२॥ सगममरिस रिमपपगरि गपधधमग मधनिनपम ॥२४॥

and the subsequent phrases are (formed, by the progressive addition of one tone⁵¹, it is called *huinkāra*, e. g. 'sa-ri-sa sa-ri-ga-ri-sa, sa-ri-ga-ma-ga-ri-sa, sa-ri-ga-ma-pa-ma-ga-ri-sa, sa-ri-ga-ma-pa-dha-pa-ma-ga-ri-sa, sa-ri-ga-ma-pa-dha-ni-dha pa-ma-ga-ri-sa.' (50c-51b)

24. Hrādamāna

In hrādamāna the phrases of Mandrādi are ended with an added 'lower'^{5 2} (prasanna), e. g. 'sa-ga-ri-sa, ri-ma-ga-ri, ga-pa-ma ga, ma-dha-pa-ma, pa-ni-dha-pa.' (51cd)

25. Avalokita

When the four-tone phrase of sama⁵³ drops⁵⁴ its second tone⁵⁶ in the ascent as well as in the descent, then it becomes

- 51. One tone to be added to the preceding phrase before the descent begins, so that the first phrase, extending upto two tones (excluding the descending tone), the second upto three, the third upto four, the fourth upto five, the fifth upto six and the sixth upto seven tones, is followed by a descent upto the intial tone in each case.
- 52. Lower tone, i. e. the first tone in the first phrase, second in the second phrase and so on.
- 53. Sama is the name of an embellishment defined and illustrated vide verse 40c-41b ante, under No. 13 of this series. The first phrase of sama for example is 'sa-ri-ga-ma-ma-ga-ri-sa.'
- 51. A figurative expression, the action is taken by the singer in fact.
- 55. The second tone of each phrase respectively in the ascent and

एवं सञ्चार्यलङ्कारा आरोहेण प्रदर्शिताः । एतानेवावरोहेण प्राह श्रीकरणाग्रणीः ।।५३।।

(भ) सप्तान्यलंकारोद्देश

अन्ये ऽपि सप्तालंकारा गीतज्ञैरुपर्दाशताः । तारमन्द्रप्रसन्नश्च मन्द्रतारप्रसन्नकः ।।१४४॥ आवर्तकः सम्प्रदानो विघूतो ऽप्युपलोलकः । उल्लासितश्चेति तेषामधुना लक्ष्म कथ्यते ।।१४॥

avalokita, e. g, 'sa-ga-ma-ma-ri-sa, ri-ma-pa-pa-ga-ri, ga-padha-dha-ma-ga, ma-dha-ai-ni-pa-ma'. (52)

Thus, the circulatory embellishments (sancārī-alankāra-s) have been demonstrated in their ascending order. These very embellishments are conceived in the descending order as well by Śārńgadeva.⁵⁰ (53)

(h) Seven other embellishments :

Other seven embellishments have also been indicated¹ by the master musicians, viz. tāramandra-prasanna, mandratāraprasanna², āvartaka, sampradāna, vidhūta, upalola⁸ and ullāsita. They are now being defined. (54-55)

Their phrases subsequent to the first⁴, such as second and so on, are formed by the progressive loss of one tone⁵. (56 ab)

- 56. Śrikarņāgraņi in the text.
- 1. Or demostrated.
- 2 & 3. The suffix 'ka' in the text seems to have been provided for completing the metre as it has been dropped in the illustration.
 - 4. In the case of these seven embellishments the form of the first phrase only will be defined, while the rule for the subsequent phrases has been stated in general.
 - 5. The initial tone of of the preceding phrase.

सकृदाद्यं गायेवावर्तकस्तु सः । यत्कलायां ससरिरिससरिस रिरिगगरिरिगरि गगममगगमग ममपपममपम पपधधपपधप धधनिनिधधनिध । ।३।

4. सम्प्रदानः

एतस्येव कला उन्त्यौ द्वौ स्वरौ संत्यज्य गीयते ।। १९।। सम्प्रदानमलंकारं विदुर्दुधाः । तवा यवा ससरिरिसस रिरिगगरिरि गगममगग ममदपमम पपधघपप धधनिनिधध । ।४।

5. विधूत:

युग्ममेकान्तरितयोस्त्यक्तादप्येवमेव चेत ।।६०।। द्विद्धिः प्रयुज्येत तदा विधूतो बुधसंमतः । सगसग रिमरिम गपगप मधमध पनिपनि । । १।

second and the initial (tone) once, it is avartaka⁶, e.g. 'sa-sa-ri-ri-sa-sa-ri-sa, ri-ri-ga-ga-ri-ri-ga-ri, ga-ga-ma-ma-gaga-ma-ga, ma-ma-pa-pa-ma-ma-pa-ma pa-pa-dha-dha-pa-padha-pa, dha dha-ni ni-dha-dha-ni dha'. (58c-59b)

4. Sampradāna

5. Vidhūta

When this" very phrase is sung by dropping the last two tones, then to the experts, the embellishment is known to be sambradāna, e.g. 'sa-sa-ri-ri-sa-sa, ri-ri-ga-ga-ri-ri, ga-ga-ma-maga-ga ma-ma-pa-pa-ma-ma, pa-pa-dha-dha-pa-pa, dha-dha-ni ni-dha-dha.' (59c-60b) (FR PURANA P. 83

When a pair of two tones, taken alternatively¹⁰, is employed twice and is followed by similar pairs of tones commencing with the omitted¹¹ tone, then it is considered

8. Literally, a whirlpool.

9. The phrase of avaitaka, e. g. 'sa-sa-ri-ri-sa-sa-ri-sa,'

10 & 11. In the order of 1-3, 2-4, 3-5, 4-6, 5-7.

Treatment of Svara

1. तारमन्द्र प्रसन्नः पूर्वेकैकप्रहाणतः । द्वितीयाद्याः कलास्तेषां व्रजेद्यदि ।। ४६।। अष्टमस्वरपर्यन्तमारुह्याद्यं ऽयमलङ्कारस्तदोच्यते । तारभन्द्रप्रसन्नो संरिगमपधनिसंसं ।१।

2. मन्द्रतारप्रसन्नः

सप्तकस्यावरोहणे ॥४७॥ मन्द्राबष्टममुत्प्लुत्य माहेश्वरोत्तमः । मन्द्रतारप्रशन्नास्थमाह_ संसंनिधपमगरिसं । ।२।

3. आवर्तकः

आद्यं द्वितीयमाद्यं च द्विद्विर्गीत्वा द्वितीयकम् ॥ १८ ॥

Taramandra-prasanna 1.

Having ascended upto the eighth tone, if one descends to the initial (tone), such an embellishment is called *taramandra*prasanna^e, e. g. 'sa-ri-ga-ma-pa-dha-ni-sa-sa'. (56c-57b)

2. Mandratara-prasanna

Having jumped from the 'lower' (mandra) to the eighth (tone), if seven tones are (sung) in the descending order, it is said to be mandratāra prasanna by Sārngadeva⁷, e.g. 'sa-su-ni-dha-pa-ma-ga-ri-sa'. (57c-58b)

3. Āvartaka

Where, in a phrase, one sings the initial (first), the second and the initial tone twice, each followed by the

^{6.} Since both the terms, mandra and prasanna are used in this name, the interpretation offered by Nijenhuis, 'clear in its high and low notes' may be accepted in this context. Prasanna has been rendered literally as clear however the notation may be understood as defined by the author in the very beginning, the words mandra and tara being only relative.

^{7.} Literally, the best among the devotees of Siva.

6. उपलोलः

कलायामाद्ययोर्युग्मं चेत्तृतीयद्वितीययोः ॥६१॥ द्विद्विः प्रयुज्यते तज्ज्ञैरुपलोलस्तदोच्यते । सरिसरिगरिगरि रिगरिगमगमग गमगमपमपम मपमपधपधप पधपधनिधनिध । ।६।

7. उल्लासितः

द्विर्गीत्वा ऽऽद्यं तृतीयं च प्रथमं च तृतीयकम् ॥६२॥ सक्वद्गायेद्यत्कलायां तमुल्लासितमूचिरे । ससगसग रिरिमरिम गगपगप ममधमध पपनिपनि । ।७। इति प्रसिद्धालङ्कारास्त्रिषष्टिरुदिता मया ॥६३॥ अनन्तत्वात्तु ते शास्त्रे न सामस्त्येन कीर्तिताः ।

by the sages to be vidhūta, e. g. 'sa-ga-sa-ga, ri-ma-ri-ma, ga-pa-ga-pa ma-dha-ma-dha, pa-ni-pa-ni.' (60c-61b)

6. Upalola

If in a phrase, a pair of the initial tone is employed twice followed by a pair of the third and the second tones (sung) twice, it is said to be *upalola* by the experts, e. g. 'sari-sa-ri-ga-ri-ga-ri, ri-ga-ri-ga-ma-ga-ma-ga, ga-ma-ga-ma-pama-pa-ma, ma-pa-ma-pa-dha-pa-dha-pa, pa-dha-pa-dha-nidha-niha.' (61c-62b)

7. Ullāsita

Having sung the initial (tone) twice, if the third, the first and the third tone is employed once in succession, it is called *ullāsita*, e. g. 'sa-sa-ga-sa-ga, ri-ri-ma-ri-ma, ga-ga-pa-ga-pa, ma-ma-dha-ma-dha, pa-pa-ni-pa-ni.' (62c-63b)

Thus, sixtythree well known¹² embellishments have been described by me. Since they are infinite in number, they have not been exhaustively dealt with in this treatise. (63c-64b) (iii) अलंकाराणां प्रयोजनम् रक्तिलाभः स्वरज्ञानं वर्णाङ्गानां विचित्रता ।।६४।। इति प्रयोजनान्याहुरलङ्कारनिरूपणे ।

।। इति प्रथमे स्वरगताध्याये घष्ठं वर्णालङ्कारप्रकरणम् ।।६।।

(iii) The object of tonal embellishments : 64c-65b

Creation of delightfulness, tonal perception¹ and the variety of tonal structure (varnāiga) is the object³ of demonstrating the embellishments.³ (64c-65b)

- 1. svara-jñana literally means knowledge of tones.
- 2. Prayojana is purpose, the the end in view.
- 3. The author is explaining the relevance of this topic of embelishments being included in the scheme of this work.

^{12.} Prasiddha has been rendered as well known.

(ख) शुद्धतालक्षणम्

, शुद्धतालक्ष्म कथ्यते । यासां नामस्वरो न्यासो ऽपन्यासो ऽशो ग्रहस्तथा ।।२।। तारन्यासविहीनास्ताः पूर्णाः शुद्धाभिधा मताः ।

(b) The definition of $\dot{s}uddhat\bar{a}$: To define $\dot{s}uddhat\bar{a}^4$, it is stated that the *jāli-s*, which have their denominative⁵ note as the final note⁶ ($ny\bar{a}sa$), the semi-final note⁷ ($apany\bar{a}sa$), the fundamental note⁶ ($am\dot{s}a$) and the initial note⁹ (graha), which do not have the final note in the high register and which are complete¹⁰ are known as $\dot{s}uddh\bar{a}$ $j\bar{a}ti$ -s. (2b-3b)

with. Jati-s are so called because they come into being by the collection of such factors as the *stuti-s*, *svara-s* and *grama-s*, or they arise from the initial note etc., or alternatively, that which gives rise to or induces (in the listener) the enjoyment of a particular sentiment (i. e. *rasa* or aesthetic delight) is called *jati*. Alternatively, *jati-s* are so called because they are the cause of the entire phenomenon of *raga* and so forth; or otherwise, *jati-s* denote the various classes (i. e. castes) of human beings such as *brahmana* and so forth.

Kallinātha conjectures a few more derivations of the term jāti. Jāti-s are so called because they are duly constituted out of the proper combination of the two grāma-s; or, because they suggest a class name such as the cow among the animals. The cowness is manifest in many individual cows in a slightly modified form; and so is jāti inherent in the rāga-s and their mixed and derived forms. Jāti, thus, comprehends in its connotation certain characteristic features that are essentially

5. Namassara, i. e. the denominative note is the one by which the jati is named.

- 6. Nyāsa or the final note is the one that forms the concluding note of a melody.
- 7. Apanyasa or the semifinal note is the concluding note of a section (vidari) of a melody. Accordingly, there can be more than one semifinal note in a melody.
- 8. Ainsa or the fundamental note is the most prominent note and functions as the dominant as well as the tonic.
- 9. Graha or the initial note is that with which the song is commenced.
- 10. That is, having all the seven notes,

त्र्यथ सप्तमं जातिप्रकरणम्

क. उपक्रमः

(i) शुद्धा जातयः

(क) सप्तशुद्धजातीनामुद्देशः शुद्धाः स्युर्जातयः सप्त ताः षड्जादिस्वराभिधाः । षाड्ज्यार्षभी च गान्धारी मध्यमा पञ्चमी तथा ।।१।। धेवती चाथ नेषादी,

Section 7

Jati-s (Melodic types)

A. Introductory : 1-28

(i) Suddhā (primary) jāli-s : (1-3b)

(a) The seven śuddhā jāti-s—There are seven śuddhā¹ (primary) (jāti-s² (melodic types) named after the notes şadja etc.,³ viz. śādjī, ārşablū, gāndhārī, madhyamā, paācamī, dhaivatī and naisādī. (1.2a)

Now, as per the synopsis of the work, the author is going to deal with the tonal structures used for actual singing. It seems that when Bharata, whose tradition Saragadeva generally follows, set out to systematise the music of his times, he comprehended the prevalent melodies into eighteen basic melodic types which he called *jati-s*. The word '*jati*' literally means a class, genus or an ethnic group implying an attribute or a characteristic commonly shared by the constituent members that also exhibit other individual features which distinguish them from each other.

The word jāti as applied in the context of music has been defined semantically in various ways by Matanga (as quoted by 'S') to begin

- 2. Joti in its general connotation signifies 'genus, class or type'.
- 3. The seven notes are meant,

^{4.} Suddhatā is derived as an abstract noun from suddha (pure) and is here used to refer to the purity of the suddhā jāti-s.

^{1.} Literally, pure or unmodified.

common to a certain class or type of melodic structures called gramaraga-s and such other derived or associated forms. Jati-s may therefore be understood as melodic types on the basis of which were developed the other later melodic structures.

Jati-s as melodic types are recognized to be eighteen, out of which seven are called *suddha* and eleven are known as *sainsargaja vikjta*. The *jati-s* that are named after the seven *suddha stara-s* (standard notes) and have one of these notes as their final note (nyasa) after which they are named, apart from a few other factors to be described shortly, are considered to be *suddha* (pure) in the sense of being the primary and original types from which the rest were thought to have been derived by modification, and were on this account called *vikjta* (modified). (1-2a)

It may be observed that three important considerations determine the *suddhata* of *jati-s* (i. e. purity, originality or in other words, the r being primary or otherwise), viz.

- (i) that the note which determines their name (such as sādji, arsabhi, gandhari etc., being named after salja, tsabha, gandhāra etc. respectively) should function as their final, semifinal, fundamental and the initial note.
- (ii) that they have their final note in the low or the middle heptad (saptaka), and
- (iii) that they are complete, i. e. employing all the seven notes.

Kallinātha points out that since the use of the final note in the high register is specifically prohibited it is to be inferred that it is ordained in the low and the middle register despite the fact that Bharata has explicitly laid down that the rule that the final note in the *suddhā jati-s* should be in the low register. He argues that if Bharata's rule is taken literally, the use of the middle *sadja* in case of *sadjt* ordained by Matanga would be contradictory in practice. That is why, he seems to suggest, Śārngadeva has prescribed a negative rule. (2b-3b)

(ii) विक्वता जातयः

विक्रुता न्यासवर्जेतल्लक्ष्महोना भवन्त्वमूः ॥३॥ सम्पूर्णत्वग्रहांशापन्यासेष्वेकेकवर्जनात् । भवन्ति भेदाश्चत्वारो द्वयोस्त्यागे तु पण्नताः ॥४॥ त्यागे त्रयाणां चत्वार एकस्त्यक्तं चतुष्टये । भेदाः पञ्चदशैवेते षाडुज्याः सद्भिनिरूपिताः ॥४॥ तत्राष्टौ पूर्णताहीनाः सप्त त्वितरर्वाजताः । द्विधा स्युः पूर्णताहीनाः षाडवौडुवभेदतः ॥६॥ अतो ऽष्टावधिका आर्धभ्यादिष्वौडुवजातिषु । अतस्त्रयोविंशतिधा षट्सु प्रत्येकमोरिताः ॥७।।

(ii) Vikrța (modified) jati-s : (3c-7)

These (suddhā jāti-s) when devoid of their (above) characteristics¹, excepting the rule for the final note, become modified (vikrtā).² (3cd)

By the omission of completeness, the initial note, the fundamental note and the semi-final note, one by one, four varieties³ are obtained⁴; and by dropping two (of them), they⁵ are considered to be six. (4)

These very primary *jatis* that have been characterised as having their denominative note for the final, the semi-final, the fundamental and the initial note, having all the seven notes and having their final note in the low or the middle register, become modified ($vik_{II}ta jatis$) when they are deprived of these characteristics with the provision that they retain their limitations with regard to the final note.

This is interpreted by the two commentators in two different ways. 'K' seems to restrict the application of the exception with regard to the final note, to the rule pertaining to the denominative note being the final note. He is silent with respect to its employment in the middle or the low register only. However, 'S' applies the exception to the latter and not the former in which case he is silent. The two versions are presented here in their own words as under :

Kallinātha states that, of the five characteristics of the *suddhota* of jati-s (viz. that the denominative note is their final, semi-final, fundamental and initial note and their completeness) leaving aside the specification with regard to the final note the modified jati-s are relieved

- 1. The characteristics of *suddhata* as already described.
- 2. Now, by what principle they are modified, is to be inferred from the description of the different varieties of modified forms of the *suddha-jati-s* that follows.
- 3. Of modifie 1 juli-s
- 4. Lit. become.
- 5. That is, the varieties obtained.

Section 7 : Jatis (Melodic types)

Treatment of Svara'

By the omission of three⁶, four (varietics) and by omitting four (of them) only one⁷ is (obtained). These fifteen⁸ are the only varieties of $s\bar{a}dji$ demonstrated by the noble ones. (5)

Of these⁹, eight are devoid of completeness and seven are deprived of the other (factors)¹⁰. Those devoid of completeness are twofold being distinguished as hexatonic (sadava) and pentatonic (auduva). (6)

Thus there would be eight (varieties) more in the pentatonic $j\bar{a}ti$ -s such as $\bar{a}rsabh\bar{a}$ and others; and therefore, these six¹¹ are known to have twenty-three varieties each. (7)

of the other (four) limitations. He explains this interpretation by saying that accordingly, in case of the modified jati-s the denominative note will be the final note while other notes will be employed as semi-final, fundamental and initial notes. Thus in this way the *suddha jati-s* become the modified jati-s and not the associate modified (samsargaja-vikyta) jati s. This arrangement, he says, helps to assign the particular modified jati-s to the corresponding *sud-ba juti s* since their final note serves as the distinguishing mark.

'S' states that these *suddha jati-s* deprived of the said characteristic marks excepting the final note are modified. The absence of the characteristic mark with regard to the final note implies (the non-applicability of) the rule pertaining to the final note being in the registers other than the higher one, for (he asserts) that is not necessary in the case of modified forms, and he quotes Matanga in support of his view who says, "In the *suddha jati-s* the final denominative note is in the lower register, but in the modifications this rule does not apply." Accordingly, he conceives two forms of the primary *jati-s*, viz. characterised by *suddhatva* (purity) and modification. However, he points out that *suddhatva* cannot he predicated of *jati-s* such as *sadja-kaifikt*, obviously referring to the associate modified ones.

- 7. Variety.
- 8. 4+6+4+1=15.
- 9. Fifteen varieties.
- 10. Such as the initial note, the fundamental note and the semifinal note.
- 11. That is, the six modified forms of the *suddhā jāti-s* excluding sādjī

It is not only interesting but also instructive to consult Bharata who seems to be the author of the concept of *jāli-s* and their classification. He distinguishes *jāli-s* primarily into two classes, viz. those that are named after their denominative note which he calls *svara-jāli-s* and which can only be seven; and those eleven that are formed by the combination of these *svara-jāli-s* in their modified forms, which he calls *samsargajā vikītā* (combinations of modified *jāli-s*).

Furthermore, he informs that the svara-jāti-s are twofold, viz. suddhā (pure) and vikttā (modified). Śnddhā he defines as Śārūgadeva does (in substance) and vikttā, he says, are formed when the suddhā jāti-s are defiled with regard to one, two or more of their characteristics excepting the final note. The rule for the final note being in the lower register, he further adds, does not apply to them (cf. N. S, G. O. S. Vol. IV p. 37).

Thus Bharata explicitly states how the modification of jatis is effected. Since Sarsga leva is not quite explicit in this regard, even though his description of the modified forms implies the underlying principle of modification, the ambiguity of his text, which is obviously due to the brevity of his expression, can lead one to the interpretation that the modified jatis are formed by depriving the *suddha* jatis of all their characteristics excepting that of the final note. Indeed the expression *etal-lakşma-hina* (devoid of the characteristics of *suddhata*) has been interpreted as such by the commentators. But in any case it is helpful to bear in mind that though only one form of modification of each of the seven *suddha-jatis* will correspond to this interpretation which is included among the various modifications detailed by the author subsequently, such seven modified forms have theoretically, if not practically, to be conceived because of the fact that the *samsargaja-vikyta* (associate modified) *jatis* are formed out of these.

Thus, we have svara-jāti-s classified as śuddhā and vikrţā. The vikţtā are modified variously and manifest in two ways, viz, as the varieties of śuddhā by the application of the above rule and by the combination of such modified varieties, the former being called 'modified (vikţtā) jāti-s' and the latter 'associate modified jāti-s' (samsargajā-vikţtā). The vikţtā-s are considered to be the variations of śuddhā and are not therefore counted independently. (3 cd)

Now, the author describes the technique of forming different varieties of the modified forms of *suddha jati-s* such as *sadji* and others. It is obvious from this description that in all these cases the denominative note is understood to be the final note. We are thus left with four variable factors by dropping which different varieties are obtained. If,

^{6.} Three factors.

for example, one of these four is ignored (in turn), we get four varieties, viz. (i) lacking in respect of completeness, and in not having the denominative note (ii) as the initial note, (iii) as the fundamental note, and (iv) as the semifinal note. However, by the omission of one or more of these factors, as pointed out by Kallinātha, what is intended is not the *absence* of these but the violation of *suddhata*. The specific characteristics of *suddha jati-s* involved here are the employment of the denominative note as the initial, the fundamental and the semifinal note and completeness; what is implied by omission is not that the varieties of the modified *jati-s* can be formed without employing the factors such as completeness, and so on, but that there will be loss of completeness, i.e. less number of notes (five or six) will be employed and notes other than the denominative ones will be employed as the initial, the fundamental and the semifinal notes; for otherwise *jati-s* cannot be formed at all. Thus the term omission or its equivalents have a technical meaning.

Similarly, by dropping two factors six varieties are obtained, e.g. (i) by dropping completeness and the initial note

(ii) by	' 33	33	and the fur	ıdamer	ntal note
(iii) by	در <i>'</i>	33	and the set	nifinal	note
(iv) by	/	the initial	and the		> 2
(v) by	' »	the fundame	ntal and the		,,
(vi) by	' 12	>>	22	initial	note

Similarly, by ignoring the observance of the definitive rule with regard to three factors, four other varieties are obtained, e. g. by dropping:

(i) completeness, the initial and the fundamental notes

(ii) ,. ,, and the semifinal notes

(iii) ,, the fundamental and semi-final notes

(iv) the initial, the fundamental and the semifinal notes.

However, if all the four factors are omitted there will only be one variety which will probably be the same as the modified form defined in verse 3 ante. (4-5)

In the case of sad/st, fifteen varieties were obtained. Analysing the process of their formation it is observed that eight of them were formed due to the non-observance of the condition of completeness (sampārņatva or pārņatva). While seven other varieties were obtained by omitting the other factors, viz. the initial note, the fundamental note and the semifinal note in the order already demonstrated. Now, the author adds that the other factors being in their order, loss of completeness is effected in two ways, viz. by the omission of one or of two notes and thereby creating hexatonic or pentatonic *jati-s*. This process leads to the formation of eight more pentatonic varieties bringing the total to twentythree (8+8+7=23). Since *sadjt* is a hexatonic *jati* it has only fifteen varieties, but all others beginning from *arşabhl* are hexatonic as well as pentatonic and thus have twentythree varieties each. Thus we have $(15+23\times6=153)$ one hundred and fiftythree varieties of modified *jati-s* in all. These are classified in the following table which has been adopted with some modifications from *Prayava Bharati*, p. 245. (6-7)

Modification of *suddha jati-s*

	Name of the	ame of the Total No. of		ner of modification	
No.	šuddha jati	modified forms	Loss of comple- teness	Violation of the rule for the initial, fundamenta and the semifinal notes	
1	2	3	4	5	
1.	Şadjı	15	8	7	
2.	År sabht	23	16	7	
3.	Gandhart	23	16	7	
4.	Madhyama	23	16	7	
5.	Pañcamt	23	16	7	
6.	Dhaivatt	23	16	7	
7.	Naişād 1	23	16	7	
	Total No.	153	104	49	

(Chart 28)

(iii) संसर्गजा विक्वता जातयः

विकृतानां तु संसर्गाज्जाता एकादश स्मृताः । स्यात्वड्जकैशिको षड्जोदीच्यवा षड्जमध्यमा ।। । । गान्धारोदीच्यवा रक्तगान्धारी कैशिको तथा । मध्यमोदीच्यवा कार्मारवी गान्धारपञ्चमी ।। ९।। तथा ऽऽन्ध्री नन्दयन्तोति,

तद्धेतूनघुना ब्रुवे । षाड्जीगान्धारिकायोगाज्जायते षड्जकैशिकी ।।१०।। षाड्जिकामघ्यमाभ्यां तु जायते षड्जमघ्यमा । गान्धारीपश्वमीभ्यां तु जाता गान्धारपश्वमी ।।११।। 18

गान्धार्थार्थभिकाभ्यां तु जातिरान्ध्रो प्रजायते । षाड्जो गान्धारिका तद्वद्वैवती मिलितास्त्विमाः ।।१२।। षड्जोदीच्यवतीं जाति कुर्युः, कार्मारवीं पुनः । उत्पादयन्ति नैषादीपश्वम्यार्थभिका युताः ।।१३।। नन्दयन्तीं तु गान्धारोपश्वम्यार्थभिका युताः । गान्धारो धैवती षाड्जो मध्यमेति युतास्त्विमाः ।।१४।। गान्धारोदीच्यवां कुर्युर्मध्यमोदीच्यवां पुनः । एता एव विना षाड्ज्या पश्वम्या सह कुवते ।।१४।। कुर्युस्ता रक्तगान्धारों नैषादी च न धैवती । अ.र्षभों धेवतीं त्यक्त्वा पश्वम्यः कौंशिको भवेत् ।।१६।।

(iii) Samsargajā-vikītā (associate modified) jāti-s : (8-16)

The formations arising out of the association of the modifications are accepted¹ to be eleven. (8ab)

They are şadja-kaišikī, şadjodīcyavā, şadja-madhyamā, gānddhārodīcyavā, raktagāndhārī, kaišikī, madhyamodīcyavā, kārmaravī, gāndhāra-paācanā, āndhrī and nandayantī. Now I shall describe their origins². (8c-10b)

Sadja-Laišikī is formed³ by the combination of sādjī and gāndhārī, sadjamadhyamā arises from sādjī and madhyamā, gāndhārapaācamī is brought forth by gāndhārī and paācamī, āndhrī is born from gāndhārī and āršabhī; sādjī, gāndhārī and dhaivatī jointly cause sadjodīcyavā jāti; again naisādī, paācamī and ārsa-

From the combination of the modifications of the *suddha jati-s*, i. e., by the association of their modified forms come into being eleven (and not more) formations called associate modified (sainsargaja vikīta)

3. Lit. 'is born'.

bhī together produce kāramāravī, while nandayantī is the combination of gāndhārī, paācamī and ārşabhī; gāndhārī, dhaivatī, sādjī and madhyamā all these associated together create gāndhārodīcyavā; these⁴ very (jāti-s) with paācamī in the place of sādjī give rise to madhyamodīcyavā, and these⁵ with nāişādī in the place of dhaivatī create rakta-gāndhārī. Kaišikī is formed by five⁶, i. e. leaving aside ārşabhī and dhaivatī. (10c-16)

jati-s. The text, since it is not explicitly worded, is open to a slightly different interpretation which would read: "Eleven (forms) are known to be produced by the association (i. e. combination) of the modified *jati-s.*'s And by "modified *jati-s*" are implied, according to this interpretation, the varieties of the modified forms of the *suddht jati-s*. (8ab)

(iv) जातीनां ग्रामविभागः

चतस्रः षड्जशब्दिन्यो नैषादी धैवती तथा। आर्षभो चेति सप्तैताः षड्जग्रामस्य जातयः ॥१७॥ शेषाः स्युर्मध्यमग्रामे,

(iv) The grāma-wise distribution of jāli-s : (17-18a)

The four¹ having the word şadja (in their name), as also naişādī, dhaivalī and ārşabhī.--these seven jāli-s pertain to the şadja-grāma and the rest of them² belong to the madhyamagrāma. (17-18a)

Now, the author is here relating the grama-wise distribution of the eighteen jatis which is portrayed in the following chart alon; with the details of their combination :

4. i. e., gandhart, dhaivatt, madhyama and pañcamt.

- 6. i. e., sadji, gandhari, madhyama, pañcami and naisadi.
- 1. Out of eighteen, seven belong to the sadjagrama.
- 2. The remaining eleven.

^{1.} Literally, "as known from the tradition" (as known to collective memory).

² Lit. 'causes'.

^{5.} i. e., gandhart. naişadi, madhyama and pañcamt

Section 1 . Just's Assessment of provi

Treatment of Svara

	Grama-wise d	istribution and c	ombination of <i>jati-s</i>
S. No.	Name of jati	Grāma	Combination,

if any

Şadjı.	Şalja	Śuddha
Şadja-kaisikt	"	Şidjî and gändhäri
Şa i jod teyara	در	Şādji, gandhari and dhaivati
Salija-madhyama	,,	\$ā∉ji and madhyamā
Arşabhi	,,	Śuddha
Dhaivat 1	**	33
Naisadı	> >	> >
Gandhari	Madhyama)
Madhyama	13	,,
Pañcam		33
Gandharod teyara	**	Gandhar1, dhaivat1, sādj1 and madhyamā
Raktugandharı	>>	Gàndhart, naisadt, pañcamt and madhyama
Kailikt	13	Şadji, gandhari, madhyama, pañcami and naişadi
Madhyamodicyava	**	Gàndhàrt, dhaivatt, pañcamt and madhyama
Karmaravi	: •	Naişadı, Pañcamı and urşabhı
	33	Gandhart and pancamt
-		Gandhari and arşabhi
		Gandhart, pañsamt and arşabhi
	Şadja-kaišikt Şadja-kaišikt Şadja-madhyama Ārşabht Dhaivatt Naişādt Gāndhārt Madhyamā Pañcamt Gāndhārt Gāndhārt Kaišikt	Sadja-kaišiktSadja-kaišiktSadja-kaišiktSadja-madhyamāSadja-madhyamāSadja-madhyamāArşabhtDhaivattDhaivattNaişādtJGàndhārtMadhyamāPañcamtSaddudardteyatāRaktagāndhārtNadhyamodieyavāKailiktJKārmāravtSadhārapañeamtJJJSadharapañeamtJJJSadharapañeamtJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJ

(Chart 29)

(v) सम्पूर्ण-षाढवौद्धव-जातयः , पूर्णत्वाद्यधुनोच्यते । कार्मारव्यथ गान्धारपञ्च्वमो षड्जकैशिकी ।।१८।। मध्यमोदीच्यवेत्येता नित्यपूर्णाः प्रकीर्तिताः । षाड्जी च नन्दयन्त्यान्ध्रो गान्धारोदीच्यवेत्यमूः ।।१९।। सम्पूर्णषाडवाः प्राह चतस्रः काश्यपो मुनिः । ह्याच्चनिष्ट्याः सम्पूर्णषाडवौडविता मताः ।।२०।।

(v) Complete, hexatonic and pentatonic jāti-s : (18b-20)

Now, completeness and other (characteristics) are related as under :

Kārmāravī, gāndhāra-paācamī, şadjakaišikī and madhyamodicyavā are considered to be always¹ complete. The four viz. şādjī, nandayantī, āndhrī and gāndhārodīcyavā are declared by Kāśyapa to be complete as well as² hexatonic. The remaining ten are accepted to be complete, hexatonic and also⁸ pentatonic. (18b-20)

Here the author relates the different *jati-s* with regard to their being complete or otherwise. The four *jati-s* described as always complete obviously do not admit of such other forms caused by the omission of one or two notes, but those that do admit such forms are also available as complete. For instance *sadjt*, *nandayant1*, *andhr1* and *gandharod icyava* are considered to be complete as well as hexatonic. So, while singing when they are employed as hexatonic, the notes omitted in each, as pointed out by 'K', respectively are *ni*, *sa*, *sa* and *ri*. So also with respect to the remaining ten, the notes to be omitted are indicated in the following table:

Completeness and otherwise of jati-s

S.No	. Name of the <i>jati</i>	Nature	Notes to b Hexatonic form	e omitted Pentatonic form	
1	2	3	4	5	
1.	Karmaravi	Always complete	•••		
2. 3.	Gandhara-pañcami		•••	•••	
3.	Şadju-kaisikt	,,	•••		
4.	Madhyamodicyava	>>	•••	••	
5.	Şadjt	Complete and	Nisada		
		hexatonic			
6.	Nandayant1	33	Salija		
7.	Andhri	3)	Salja		
8.	Gandharodicyava		Rşabha		
9.	Ārşabhi	Complete, hexa-			
	•	tonic and penatoni	c Şadja	sa, pa	
10.	Gandhari		Rşabha	ri, dha	
11.	Madhyama	32	Gandhara	ga, ni	
12.	Pañcami	37 33			
13.	Dhaivall		Pañcama	pa, sa	
	Naisadı	ود		pa, 34	
	Sadjod i cyava	33	,, Rşabha	21 - 21 TI 60	
16.	Şadja-madhyama	33	Nişnia	ri, pa	
17.	Raktagandhari	3 g	Rşabha	ni, ga	
18.	Kuišiki	1) 	-	ri, dha	
		(Chart 30)	•13	······································	

1. That is, they never form any hexatonic and pentatonic varieties.

2. That is, they form complete as well as hexatonic varieties.

3. Similarly, these ten form complete, hexatonic as well as pentatonic varieties.

•

(vi) जातिषु स्वरसाधारणनियमः

पञ्चमीमध्यमाषड्जमध्यमाऽऽख्यासु जातिषु । स्वरसाधारणं प्रोक्तं मुनिभिर्भरतादिभिः ॥२१॥ अंशेषु समपेष्वेतद्यथास्वनियमाद्भवेत् । एतदल्पनिगास्वाहुः कम्बलाश्चतरादयः ॥२२॥ अल्पद्विश्रुतिके रागभाषाऽऽदावपि तन्मतम् । निगयोरंशयोः षड्जमध्यमायां न तद्भवेत् ॥२३॥ विक्वता एव तत्रापि स्वरसाधारणाश्रयाः ।

(vi) The rule pertaining to the overlapping of notes in certain *jati-s* : 21-24b

Overlapping of notes¹ has been mentioned by sage Bharata and others in relation to $j\bar{a}ti-s^2$ called pañcami, madhyamā and sa(jamadhyamā. (21)

It⁸ should accordingly be (applied) in relation to sa, ma and pa (employed) as fundamental notes as per their respective rule⁴ in the *jāti-s* having weak (alpa) ni and ga, as declared by Kambala, Aśvatara and others. (22)

Overlapping of notes has been dealt with in Section 5 ante. Briefly it implies, in this context, the use of antara-gandhara and kakalinigada in some jati-s and raga-s, bhasa-s, etc. that have weak ni and ga and have sa, ma or pu as their fundamental notes. There are three, pañcami, midhyama and sadju-madhyama. The overlapping of notes in these jati-s is recommended by Bharata, Kambala and Asvatara, and is to be introduced with reference to their fundamental notes sa, ma and pa according to the rules laid down in each case in Section 5 (verse 4-7) ante. 'S' clucidates this point, "overlapping of notes is to be applied in case of the fundamental notes sa, ma and pa as per the rule. How ?, so that the respective note-positions are not transgressed. In case of sadja being the fundamental note, it is the overlapping of sadja, and when

- 2. The jati-s related to the overlapping notes are three in number.
- 3. It refers to the overlapping of notes.

4. Cf. S. R. I. 5 4-6.

This is also true of the raga, bhasa and other formations⁵ with weak ni and ga^6 ; but however, it is not applicable to ni and ga when (used) as the fundamental notes of sadja-madhyamā. Even so, only the modified jāti-s (can) take resort to the overlapping of notes (23a-24b).

madhyama and pañcama are the fundamental notes then it is the overlapping of madhyama that takes place." In this context Thakur Onkarnath has made interesting observations with regard to the question of pañcama and its technical accuracy in being named as madhyama sādhāraņa, i. e. the overlapping of madhyama. It is also observed by him that the justification for sa, ma and pa being the only notes which, when used as fundamental notes, provide for the overlapping of notes i.a the three jati-s lies in the fact that, they are placed at a distance of four śruti-s from their preceding notes; and it is the interval of four śruti-s that is the minimum required for the process (cf. Praņava Bhārati, p 254).

Salja-madhyama has all the seven notes for its fundamental note and therefore the author makes a specific exception to the effect that the overlapping of notes cannot take place in it in case ga and ni are employed as the fundamental notes. This is in accordance with the rule that antara-gandhara and kakali-nigada cannot become fundamental notes because of being modified (vide N. S., G. O. S. Vol. IV, p. 32).

(vii) जातिगतांश्वरगणना

एकांशा नन्दयन्तो च मध्यमोदीच्यवा तथा ॥२४॥ गान्धारपञ्चमीत्येतास्तिस्रो द्वचंशास्तु धवतो । गान्धारोदीच्यवा चाथ पञ्चमीत्युदिता इमाः ॥२४॥ नैषाद्यार्षभिकाषड्जकैशिक्यस्त्र्यंशिका मताः । आन्ध्रोकार्मारवीषड्जोदीच्यवाश्चतुरंशिकाः ॥२६॥ पञ्चांशा रक्तगान्धारी गान्धारी मध्यमा तथा । षाड्जीत्येताश्चतस्रः स्युः पडंशैकैव कैशिकी ॥२७॥ सप्तांशा सूरिभिः षड्जमध्यमा परिकीतिता । इति त्रिषध्टिरंशाः स्यूर्जातिष्वध्टादशस्विमे ॥२८॥

^{1.} Svara-sādhāraņa.

^{5.} According to 'K' räga includes grāma-rāga-s, uparāga-s and rāgas-s; while bhāsā includes vibhāsā-s and antara-bhāsā-s as well, and 'other formations' refer to ragāiga-s, kriyānga-s and upānga-s.

^{6.} Literally, notes having two sruti-s.

SUCCION 1 . June Annagene

Treatment of Svara

(vii) The number of fundamental notes in different jāti-s : 24c-28

The three $(j\bar{a}ti-s)$ nandayanti, madhyamodicyavā and gāndhārapaūcamī have one fundamental note; dhaivatī, gāndhārodīcyavā and paūcamī are said to be having two fundamental notes; naisādi, ārşabhī and şadja-kaišikī are considered as having three fundamental notes; āndhrī, kārmāravī and şadjodīcyavā have four fundamental notes; the four, rakta gāndhārī, gāndhārī, madhyamā and şādjī have five fundamental notes; kaišikī is the only one having six fundamental notes, while şadja-madhyamā, as declared by the sages, has seven fundamental notes; thus, among these eighteen jāti-s there are sixty-three fundamental notes. (24c-28).

The notes that are capable of being used as the fundamental notes in the different jati-s in consonance with the above scheme are indicated by 'K' as follows:

The fundamental notes of jati-s

s. N	lo. Name of jati	No. of fundamental notes	The fundamental notes
1.	Nandoyanti	I	pa
2.	Madhyamod i cyava	1	ра
3.	Gàndhàra-pañcamt	i	pa
4.	Dhaivatl	2	ri, dha
5.	Gandharodtcyava	2	sa, ma
6.	Pañcaml	2	ri, pa
7.	Naişādī	3	ni, ri, ga
8.	Årşabh i	3	ri, ni, dha
9.	Şadjakaisiki	3	sa, ga, pa
10.	Andhri	4	ri, ga, pa, ni
11.	Karmaravi	4	ri, pa, dha, ni
12.	Şadjodteyava	4	sa, ma, dha, ni
13.	Rakta-gāndhār i	5	sa, ga, ma, pa, ni
14.	Gandhari	5	sa, ga, ma, pa, ni
15.	Madhyama	5	sa, ri, ma, pa, dha
16.	Şadjt	5	sa, ga, ma, pa, dha
17.	Kaiśiki	6	sa, ga, ma, pa, dha, ni
18.	Şadjamadhyamā	7	sa, ri, ga, ma, pa, dha, ni
	Total	63	
		(Chart 31)	

The total number of fundamental notes in these eighteen jati-s is sixty-three; but this is so only if complete jdti-s are taken into account. 'S', quoting Matanga, points out that in the hexatonic jati-s the number of fundamental notes is reduced to forty-seven. Explaining the loss of sixteen in the process he says that, nine fundamental notes are accounted for by the four jati-s that are always complete, viz. karmaravt (4): gandhara-pañcamt (1), sa/jakaišikt (3) and madhyamodicyava (1) and seven belong to sadja-madhyama, sadjit, sadjodteyava, kaisikt and raktagandhari which are considered to be exceptions to this process. These exceptions are mentioned by Bharata : "The sadja madhya should have no hexatonic treatment including nisada (lit. the seventh), and there should be no gandhara there, because of an elimination of its consonant note; and the gandhart, the rakta-gandhart and the kaisiki should have no pañcama, and the sadji should have no gandhara, and the saljodicyava no dhaivata in their hexatonic treatment. These seven (notes) are to be discarded in connexion with the hexatonic treatment of the jati-s named, because of the elimination of their consonant notes (N. S., XXVIII. 65-69, Eng. Trans. by M. Ghosh, Vol. 11, p. 18).

Similarly, in the hexatonic jati-s there are only thirty fundamental notes. That is, out of the remaining fortyseven, twelve are dropped in this process because they belong to jati-s that are always complete and hexatonic, viz. sadji (5), nandayanti (1), andhri (4) and gandharodicyava (2); and five more are left out by way of exception. And he ('S') quotes the following verse of Bharata in support of this statement : "The pentatonic treatment relates to five notes (in a grama) and is known as being of ten kinds. Its subdivisions are thirty and have been mentioned before (N. S. XXIII 98, Eng. Trans. by M. Ghosh, Vol. II, p. 23).

ख. जातीनां त्रयोदश-सामान्यलक्षणानि

ग्रहांशतारमन्द्राश्च न्यासापन्यासको तथा । अपि संन्यासविन्यासौ बहुत्वं चाल्पता ततः ।।२९।। एतान्यन्तरमार्गेण सह लक्ष्माणि जातिषु । षाडवोडुविते क्वापीत्येवमाहुस्त्रयोदश ।।३०।।

B. Thirteen factors characterising jāti-s : 29-57b

Thirteen characteristic features are spoken of *jātis*, viz. the initial note, the fundamental note, the high (pitch range) the low (pitch range), the final note, the semfinal note,

samnyāsa¹, vinyāsa², profusion, rareness, antaramārga³ and the hexatonic and the pentatonic (treatment) in some.⁴ (29-30)

Bharata and Matahga have spoken of only ten characteristic features of jati-s discounting sahinyasa, vinyasa and antaramarga, distinctly enunciated by Śarhgadeva. 'K' points out that since sahinyasa and vinyasa refer to particular sections (vidari-s) of compositions, they are essentially covered by the semifinal note in the older scheme. Similarly, antaramarga being dependent upon the mutual relationship of the fundamental note and the other factors, is not separately indicated there. However, he justifies an explicit and definite mention of sahinyasa and vinyasa apart from the other ten features on the ground that they form separate parts of the composition. Similarly, he says that since antaramarga has a distinct function without which the melody cannot proceed, it deserves to be considered as an essential and distinct feature. The technical terms involved here will presently be defined and explained by the author.

1 ग्रह

गोतादिनिहितस्तत्र स्वरो ग्रह इतीरितः । तत्रांशग्रहयोरन्यतरोक्तावुभयग्रहः ।।३१॥

1. The initial note (graha) : (31)

<u>من _</u>

Of these¹, the note that is placed in the very commencement of the melody² is known as graha (the initial note). Where either of the two, the initial or the fundamental note is mentioned, both are (thereby) comprehended. (31)

Now, the author goes on to define each of the thirteen characteristic features essentially found to constitute jati-s. Of these, the initial note (graha) is defined as the note with which a melody is

- 1. The thirteen characteristic features.
- 2. Lit, a song or in this context jati.

Section 7 : Juli-s (Melodic types)

commenced. It is said that, practically the initial note is the same as the fundamental note (amsa) in all jati s; and therefore the two terms are interchangeable. So, of these two where only one is mentioned, the other is invariably implied to be the same, and to be mentioned thereby. If, only the fundamental note is mentioned, that itself is to be taken as the initial note, and vice versa. Since the fundamental notes are sixtythree, the initial notes too are sixtythree. Does it mean that there is no difference between the initial and the fundamental note? The difference between the two is functional; whereas the fundamental note, as pointed out by 'S', functions merely as sonant (vadi), the initial note is fourfold. And moreover, being the originator of raga, the fundamental note is of primary importance, whereas the initial note is of a secondary importance. This difference, theoretical as it is, will be further discerned from the definition of the fundamental note.

Graha is literally and semantically defined as the note that takes hold of the song or by which the song is initiated (lit. held).

2. ग्रंशः

यो रक्तिव्यञ्जको गेये यत्संवाद्यनुवादिनौ । विदार्या बहुलौ यस्मात्तारमन्द्रव्यवस्थितिः ।।३२।। यः स्वयं यस्य संवादी चानुवादी स्वरो ऽपरः । न्यासापन्यासविन्याससंन्यासग्रहतां गतः ।।३३।। प्रयोगे बहुलः स स्याद्वाद्यंशों योग्यतावशात् । बहुलत्वं प्रयोगेषु व्यापकं त्वंशलक्षणम् ।।३४।।

2. The fundamental note (ainsa): (32-34)

The note that is expressive of delightfulness in a melody¹ and the consonants and assonants of which are profuse in a sub-section (of the composition)², that which determines the position of the higher and the lower pitch

^{1-3.} Samnyāsa, vinyāsa and antaramārga have not been rendered into English, firstly because these concepts are hardly used by the author in the individual description of the jati-s and secondly, because it is not considered to be as advantageous as it is difficult. These terms are defined by the author subsequently.

^{4.} That is, leaving aside the *jati-s* that are always complete such as karmarant and so on.

^{1.} Geya lit, means 'worthy of singing' or, in other words, 'vocal composition' which in this system also speaks for the instrumental music.

Vidari is defined as glia-khanda, i. e. a sub-section of a melody. As 'S' elucidates, "vidari is that which divides either the tonal content or the verbal content of a melody and is thereby twofold, viz. glia-vidari, i. e. a melodic divisor or a pada-vidari, i. e. a verbal divisor." (S. R. I, p. 183).

range³, that which is its own consonant but which has another note as assonant, that which is capable of being the final note, the semifinal note, *vinyāsa*, *suimyāsa* and the initial note, that which is frequently employed in practice, and is the sonant (*vādī*) becomes the fundamental note (*amsa*) because of its efficiency⁴. However, in performance (*prayoga*), profusion⁵ (*bahulatvam*) is the (most) comprehensive characteristic mark of the fundamental note. (32-34) at the state of a multiple free state of the

The word *ainsa* literally means a constituent part and 'S' conjectures a semantic derivation saying that *ainsa* is that which divides the *jati-raga-s*. Perhaps this is relevant to that function of the fundamental note in accordance with which the higher and the lower pitch range of a *jati* is determined with reference to it.

It has been specified that the fundamental note is expressive of delightfulness in a musical composition. 'K' joints out that in so far as the fundamental note is delightful as every other note (*svara*) intriasically is, it is not different from the rest of them; therefore the significance of this attribute lies in the fact that the fundamental note is not only delightful by itself like every other note but is expressive of the delight inherent in the mutual relation of notes in the musical composition as a whole. This is analogous to the beauty of the meaning implied by the words in their mutual relationship in a sentence as a whole, apart and different from their individual literal meaning.

Another important function of the fundamental note, as already referred to, is to determine the range of the higher and the lower registers which will be further defined presently in a short while by the author. The terms samvādt (consonant) and anuvādi (assonant) have already been defined by the author in Section 3.

The other distinguishing features of the fundamental note indicated include the fact that it is capable of being its own consonant at times, as elucidated by 'K'. This may be observed in contra-distinction to the assonant which is necessarily to be a different note, i. e. other than

5. Bahulatvam or Bahutvam signifies frequent recurrence.

the fundamental note. And 'K' explains these two relations on the analogy of a king who sometimes may perform the functions of a minister but never of a servant. Sarágadeva's statement that occasionally the fundamental note is capable of functioning as its own consonant is notable in view of the general principle of Isharata that the consonant of the fundamental cannot be omitted. It is an indirect pointer to the existence of melodic structures in Sárágadeva's times that did not probably employ the consonants of the fundamental note at all, as can be observed in some of the current raga-s of Hindustani music. As Brhaspati aptly remarks that "Raga-s like marava, puriya, gujart and sohant do not belong to the mūrcchana system and therefore their fundamental note is said to be its own consonant." And to support his contention he pointedly cites Śarágadeva's definition of amisa (fundamental note) in this respect as a proof (cf. S. Chintāmaņi, p. 127).

The capacity of the fundamental note to function as the final and the semifinal note, the *satingitsa* and *vingasa* accounts for its profusion. It is interesting to observe how Bharata defines it :

"The aitisa (is that note in the song) on which its charm (raga) depends, and from which the charm proceeds, is the basis of the variation into low (mandra) and high (tara) pitches depending on the (first) five notes (pascasvarapara) and in the combination of many notes it is perceived prominently (atjurtham); and moreover other strong notes may be to it in relation of consonance and assonance, and it is related to graha, apanyasa, sinyasa, sainyäss and nyasa (notes) and it lies scattered throughout the song." (N. S. XXVIII 76-78; Eng. Tr. by M. Ghosh, vol. II pp. 19, 20).

Obviously the definition of Saragadeva is polished and more precise in describing the various functions of the fundamental note. Dattila relates the higher pitch range (tara) as five notes rising up from the fundamental note (cf. Dattilam, 57). This subject is, however, presently being dealt with by our author.

3. तारः

मध्यमे सप्तके ऽंशः स्यात्तस्मात्तारस्थितात्परान् । स्वरांश्चतुर आरोहेदेष तारावधिः परः ।।३४्।। अर्वाक्तु कामचारः स्यात्तारे लुप्तो ऽपि गण्यते । आतारषड्जमारोहो नन्दयन्त्यां प्रकोत्तितः ।।३६।।

^{3.} Tara and mandra lit, high and low, in this context signify the two extremes of pitch range in which a jati is composed.

^{4.} Yogyata (efficiency) is explained by 'K' as 'potency to delight', brought into being conjointly by the characteristic features attributed to the fundamental note as enumerated in the text (S. R. I, p. 182).

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3. The higher pitch range (tāra) : (35-36)

The fundamental note is (placed) in the middle heptad¹, and from there² in the upper heptad, (one) may ascend upto four notes: this is the maximum limit for the higher pitch range; below that however, the movement is at discretion. In relation to the higher pitch range, the eliminated note too is taken into account.³ In *nandayanti* the ascending movement is said to be upto the upper *sadja*. (35-36).

'K' elucidates that by the middle heptad, the seven notes of the middle register are indicated. The procedure for regulating the ascending movement with reference to the maximum pitch of the higher pitch-range is such that the fundamental note has to be in the middle register and one can ascend up to four notes from it in the upper register, i. e. four notes beyond the high (tara) madhyama in the madhyama-grama and beyond the high sadja in the sadja-grama. For example, as interpreted by 'K', salja being the fundamental note in the middle heptad of the salja-grama, its last limit for the higher pitch range will be four notes beyond the high sadja excluding it, viz. the high pañcama; but in the case of the middle madhyama being the fundamental note in the madhyama-grama, its notes beyond the high madhyama will be up to nişāda and not beyond it, i. c. four notes to be counted in this case include madhyama, the starting note. This is so because in madhyamagrama one cannot possibly go beyond the high register (as per the text), and in sadja-grama even though beyond high pancama we have high dhaivata and nişada, it will not be conducive to aesthetic delight to take resort to them in practice, even though one may be able to do so. But, however, Bharata has permitted the higher pitch range to be extended upto five or even seven notes beyond the fundamental note in the high register:

"The high pitch movement (*tāragati*) depending on the first five notes, e. g. the raising of the pitch from any of the *auisa* (notes) should be upto the note fourth from it, or it may be to the fifth note even,⁴ but not to any beyond it." (N. S. XXVIII 93-94; Eug. Trans. M. Ghosh Vol. II. p. 21).

It is notable that whereas Bharata provides for the ascending movement to take place from any of the fundamental notes of a jati Kallinatha, in his interpretation of Sārāgadeva, specifies şadja and madhyama only in şadja-grama and madhyama-grāma respectively. Obviously he is taking şadja and madhyama as the standard notes for şadja and madhyama-grāma for the purpose of illustrating the maximum pitch range.

It has already been mentioned that Dattila prescribes the limit of five notes beyond the fundamental note in the high register. It is obvious, however that even the scope of seven notes allowed by Bharata is not to be availed in every case.

In nandayanti which is a just of the madhyama-gritma and has pañcama as its fundamental note, the ascending movement is limited to the high salja, for according to Bharata (as quoted by 'K' vide S. R. Vol I, p. 185 Adyar Ed.), in nandayant the ascending movement must never transcend the high sadja." The practical implication of this provision is that whereas by the general rule the maximum high range of nandayant with pañcama for its fundamental note ought to be four notes beyond pañcama, i. e. upto *ii*, Bharata has ordained it to be $sadja^2$ as an exception. In other words, in the case of nandayanti one can ascend only three and not four notes beyond the fundamental note.

4. मन्द्रः

मध्यस्थानस्थितादंशादामन्द्रस्थांशमाव्रजेत् । आमन्द्रन्यासमथवा तदधःस्थरिधावपि ।।३७।।

एषा मन्द्रगतेः सीमा ततोऽर्वाक्कामचारिता ।

4. The lower pitch range (mandra) : (37-38b)

From the fundamental note (placed) in the middle register one may descend¹ upto the fundamental note in the lower register; or alternatively, upto the lower final note²

- 1. Lit. 'may go to' or move.
- That is the final note placed in the lower register.

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^{1.} Saptaka comprehends seven notes of the scale and is analogous to the Western concept of the octave, but in order to distinguish it with respect to the number of notes it has been called 'heptad'.

^{2.} That is, the position of the fundamental note in the high register.

^{3.} In other words, it is counted as constituting the No. 4 despite the fact of its elimination, for the purposes of determining the higher pitch range in a jāti.

^{4.} The original Sanskrit text of Bharata also provides for the extent of the seventh note as well as an option, but that seems to have escaped the English version quoted above.

(nyas) or even up to ri and dha below that. Such being the ultimate limitations of the descending movement, discretion operates within them. (37-38b)

It seems, as observed by Kallinatha, that the starting point in the *jalis* was the middle fundamental (note). The range of pitch in the lower register is, as a general rule fixed as from the middle fundamental (note) to the lower fundamental (note); or alternatively up to the final (note) of the lower register. Here, 'K' interprets 'nyāsa' (the final) to be the last note of the grama, i. e. ni for the gadja-grama and ga for the madhyama-grama, and not as the concluding note of a song. As an exception as it were, it is laid down that in certain cases the descending movement may be carried up to the immediately preceding notes in the two grama-s, viz. ri and dha. Kallinatha takes this option to be an alternative to the second rule and accordingly interprets nyāsa in the above sense. However, it will be worth-while to refer to Bharata who says :

"The low pitch movement is threefold as it is determined by the fundamental note, the final note or the semifinal note. There is lower (pitch) beyond the fundamental (note). In the case of conclusion both (the final and the semifinal notes) are accepted to be in order. However, in the event of gandhāra being the final note, tsabha has been observed (to be the last limit)." (Quoted by Kallinatha in his commentary, S. R. Adyar, Vol. I, p. 186).

This shows that the provision of i and dha made by Sārāgadeva cannot appropriately be taken as an (independent) alternative to the second (viz. regarding the final note) but it is given by way of an exception to it. Consequently, Kallinatha's interpretation of 'api' of the text in the sense of 'alternative' is rather far-fetched. In this regard it is better to take a view that corresponds to Bharata's statement which has no such implications.

Brhaspati, who takes the last provision (viz. regarding ri and dha) to be an exception to the rule pertaining to the fundamental, the final or semifinal note in the lower register marking the limit for the descending movement, illustrates his interpretation with reference to nandayanti jāti which belongs to the madhyama grāma and has gāndhāra for its final note. But as an exception the descending movement in this case is found to be touching fsabha. (cf. Bharatakā Sangita Siddhānta pp. 81, 82).

5. न्यास:

गोते समाप्तिकृन्न्यास एर्कीवंशतिधा च सः ॥३८॥ षाड्ज्यादीनां तु सप्तानां न्यासः स्यान्नामकृत्स्वरः । द्वौ नामकारिणौ षड्जमध्यमायां तु तौ मतौ ॥३९॥ उदीच्यवात्रयं मान्तं निपगान्ता तु कैशिको । कार्मारवी पश्वमान्ता गान्ताः पञ्चापराः स्मृताः ॥४०॥

5. The final note : (38c-40)

The note with which a musical composition¹ is concluded is the final $(ny\bar{a}sa)^2$ note; and that is in twenty-one (forms). (38 cd).

Of the seven (suddha) jati-s such as sadji and so on, their denominative note is their final (note). In Sadjamadhyama the two notes designating it are considered to be

The following chart indicates the final notes of the juti-s as described in the text.

The final	l notes o	f the j <i>ati-s</i>
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S. No.	Name of jati	Final notes	S. N	o. Name of j <i>āti</i>	l'inal notes
1.	Şadjı	5a	10.	Madhyamod icyava	ma
2.	Arşabht	ri	11.	Gandharodicyava	ma
3.	Gandhari	ga	12.	Kaiśikt	ni, p a, ga
4.	Madhyamā	ma	13.	Karmaravi	pa
5.	Pailcam	pa	14.	Şa‡ja-kaišikı	ga
6.	Dhaivalt	dha	15.	Rakta-gändhärt	ga
7.	Naişādz	ni	16.	Gandhara-pañcami	ga
8.	Şa ija madhyama	sa, ma	17.	Andhrt	ga
9.	Şudjudteyava	ma.	18.	Nandayant i	ga
		(Chi	nrt 32)		

- 1. Gtta is interpreted by 'K' as "in the application or practice of jati-s", i. e. in singing 'jati-s. As already indicated, the term geya literally refers to vocal melody but includes instrumental compositions as well.
- 2. Nydsa, as explained by 'K' is not merely the final note; it is a note that brings the song to such a conclusion that leaves no anticipation in listening. The word literally means 'that by which one gives up, or by which one is relieved.'
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its final notes. The triad of $udicyava^{3}$ ends with ma, while Kaišiki has ni, pa and ga for its finals. Kārmāravī ends with paācama and the remaining five⁴ are known to be ending with ga. (39-40)

It will be observed that of these eighteen $jali \cdot s s \frac{d}{dja}$ -madhyama has two, kaisikt has three and the rest of the sixteen have one final note each, making a total of twentyone.

6. अपन्यासः

6. The semifinal note (apanyāsa): \$1-47b)

The note that concludes a 'sub-section' of a musical composition is the semifinal note. (41ab)

- 3 The three udicyavit-s are saljodicyava, madhyamodicyava. and gandharocdicyava.
- 4. The remaining five are sadja-kaisiki, rakta-gandhari, 'gandharapañcami, andhri and nandayanti.
- 1. Vidari literally means that which divides the composition and therefore is translated as 'sub-section' to distinguish it from 'section' (du tu) and part (anga) used in Chap. IV (Also see note 2 to verses 32-34 ante).

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In kārmāravi, naisādī, āndhrī, madhyamā and ārsabhī the notes that are the fundamental notes, are known to be the semifinal notes (apanyāsa). In the triad of udīcyavā, sadja and dhaivata are the semifinal notes; madhyama is² in the raktagāndhārī, sadja and paācama are³ in gāndhārī, sa, ni and pa in⁴ sadja-kaišikī, and ni, ri and pa are known to be in⁵ paācamī. Ri and pa in⁶ gāndhāra-paācamī, gānd hāra and paācama in⁷ sādjī and ri, ma and dha are⁸ to be in dhaivatī, (and) ma and pa are accepted in nandayantī. Leaving aside ri, the (remaining) six⁹ (notes) are in kaišikī, while even seven are told¹⁰ by

The semifinal note according to 'S' marks the completion of subsections in a composition and in the words of Matanga (quoted by him), it presents the appearance of the conclusion of the composition.

The following chart indicates the semifinal notes of the eighteen jati as described in the text.

The semifinal notes of jati-s

S. No.	Name of jati	Semifinal N notes	lo.	S. No.	Name of jati	Semitinal N notes	10,
1.	Karmaravi	ri, pa, dha, ni	4	10.	Gandhari	sa, pa	2
2.	Naişādt	ni, ri, ga	3	11.	Şadjakaisikt	sa, ni, pa	3
3.	Ändhri	ri, ga, pa ni	4	12.	Pañcamt	ni, ri, pa	3
4.	Madhyama	sa, ri, ma, pa, dha	5	13.	Gandhura- pañcami	ri, pa	2
5.	Arşabhı	ri, ni, dha	3	14.	Şadjı	ga, pa	2
6.	Şadjod teyava	sa, dha	2	15.	Dhaivat1	ri, ma, dha	3
7.	Madhyamodicyava	sa, dha	2	iG.	Nandayanti	ma, pa	2
8.	Gandhārodicyavā	sa, dha	2	17.	Kaišikt	sa, ga, ma, pa, dha, ni, (ri)	6 01 7
9.	Rakta-gandhari	ina	I	18.	Şaljama- dhyuma	sa, ri, ga, ma pa, dha, ni	

(Chart 33)

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^{2-10.} Though the word *apanyasa* (semifinal note) is not used in the text it is implied in the context and even in the translation it has been left as 'understood' in order to avoid unnecessary repetition of the word.

some. Sadja-madhyamā is said to be having seven notes as its semifinal notes. (40-45).

In this context, the semi-final notes that are (identical with) the fundamental notes¹¹ are nineteen¹², others are thirtyseven, and when put together they are fiftysix. In the event of seven being (counted) in kaisikī, they¹³ are known to be fiftyseven in all (46-47b).

७. संन्यासः

अंशाविवादो गीतस्याद्यविदारोसमाप्तिकृत् ।।४७।। संन्यासो ऽंशाविवाद्येव

8. त्रिन्यासः

, विन्यासः स तु कथ्यते । यो विदारीभागरूपपदप्रान्ते ऽवतिष्ठते ॥४८॥

7. Samnyāsa : (47c-48a)

Samnyāsa is the concluding note of the first sub-section¹ of a musical composition with the provision that it is not a dissonant of the fundamental note. (47c-48a)

'K' interprets amsa-avivadt (not dissonant to the fundamental note) to imply that it should be a consonant to it. But the expression being negative only forbids the dissonant of the fundamental note from becoming a faminy dsa (note) and does not affirm it positively to be either

- 13. 'They' stands for apanyasa-s (the semifinal notes).
- 1. Obviously more than one sub-section is visualised in a *jati*. As already mentioned, *vidari* is rendered as sub-section in order to distinguish it from section (*dhatu*) and part (*anga*), though it rather could as well mean a section.

8. Vinyāsa : (48bd)

Similarly, $viny\bar{a}sa$ is the note that stands at the end of a $pada^2$ forming a part of a sub-section and is not related to the fundamental note as its dissonant. (48b+d)

consonant or assonant. Obviously, therefore, it can be either of them. Indeed Matanga expresses the same view interpreting the same expression in the context of vinyasa.

Vidart is a sub-section of a musical composition, and it is divided by certain notes that conclude certain patterns of tonal movement and phrases structured upon meaningful words or syllabic units; and such a note is known as vinyāsa, with the other qualifications of saimyāsa. That is why Mataŭga considers it to be a qualified saimyāsa, as he says: "This (note) itself which is saimyāsa becomes vinyāsa if it occurs at the close of a portion (pada); and therefore it is said to be functioning as the consonant or the assonant (note) of the fundamental (note) at the close of a pada (Quoted by 'S' in his commentary). 'K' notably points out that since all the notes excepting the dissonants can function as saimyāsa and vinyāsa, they have not been enumerated, their number being too great.

9. बहुत्वम्

अलङ्घन।त्तथा ऽभ्यासाद्वहुत्वं द्विविधं मतम् । पर्यायांशे स्थितं तच्च वादिसंवादिनोरपि ।।४९॥

9. Profusion (bahutva) : (49)

Profusion¹ is accepted to be twofold : by non-overstepping² and by repetition³. It abides in the co-fundamental note⁴, as also in the sonant and the consonant. (49)

1. Bahutva of the text.

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- 2. Langhanam literally means overstepping in the sense of bypassing without physically avoiding a note entirely.
- 3. Ablyasa is a technical term in Sanskrit grammar, implying a single repetition. Here it has been used in an extended meaning, implying multiple repetition.
- 4. Paryayamisa refers to those notes that are capable of being employed as fundamental notes in the same *iati*.

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^{11.} Anisia is printed as antya (uydsa) in the Adyar edition. 'S' clearly reads anisia, 'K' is silent and K. R. follows the reading of 'S' (cf. S. R. Vol I, p. 125). This reading is further supported by S. Raj (II.1.4.94) wherein it is stated that the semifinal notes identical with the fundamental notes are nineteen. However, it is only with reference to the suddha jati-s that this statement holds good. In view of further evidence in the text pertaining to the description of individual jati-s, such as arsabht etc. the reading anisia has been preferred in our text.

^{12.} These are indicated in item No. 1-5 of the above chart.

^{2.} Pada literally means a complete or inflected word, i. e. a meaningful word, a quarter or a line of stanza, a part, portion or division (as of a sentence) etc. Here it seems to have been used in the sense of a meaningful word or a specified syllabic unit devoid of meaning.

Bahutoam, i. e. profusion is defined with reference to alpatoam, i. e. rareness, and is considered as the opposite concept. Since rareness is considered to be twofold, correspondingly profusion too is accepted as such. Rareness is obtained through overstepping and by unexercised use of a particular note. Overstepping (langhanam) is defined by 'K' as 'Isatsparsa', i. e. a slight touch, which is aptly explained by 'K. R.' as lightly passing over, so that it does not imply an all-out omission. Nonoverstepping implies the absence of overstepping which according to 'K' means 'touching fully', probably in contrast with 'touching slightly' in the case of rareness.

Abhydsa is defined by 'K' as repetition, which he explains to be twofold, viz. uninterrupted and frequent. Constant repetition of a note without being interrupted by others illustrates the former, and interrupted but frequent repetition the latter.

There is some difference in the interpretations of the two commentators with regard to the text of 49 cd. According to 'K' "That twofold profusion abides in the paryayamsa, i.e., the fundamental note other than that which is the sonant, and even in the sonant and the consonant." On the other hand, 'S' interprets: "Profusion is another name for 'sonant and consonant'. If the profusion is by non-overstepping, it is sonant and that which is by repetition is consonant." 'K. R.' thinks that probably 'S' had a different reading of the text which he reconstructs as — "paryayo"mise sthitam tac-ca vadi-samvadino r-api" which he translates as—"That (profusion) abiding in the amsa will be the synonym of vadi and samvadi."

10 अल्पत्वम्

अल्पत्वं च द्विधा प्रोक्तमनम्यासाच्च लङ्घनात् । अनभ्यासस्त्वनंशेषु प्रायो लोप्येष्वपोष्यते ॥ ५०॥ ईषत्स्पर्शो लङ्घने स्यात्प्रायस्तल्लोप्यगोचरम् । उशन्ति तदनंशे ऽपि क्वचिद्गीतविशारदाः ॥ ५१॥

10. Rareness (alpatva):

Rareness¹ is said to be twofold, viz. by the absence of repetition² and by overstepping. Absence of repetition is

(practised) with regard to the non-fundamental notes⁸ and is generally desired in (the case of) the eliminated⁴ notes. (50)

Overstepping⁵ is slightly touching and is generally observed among the eliminated notes. Musicologists, sometimes, admit it⁶ even in (the case of) non-fundamental notes. (51)

Alpatca (rareness) of a note is secured by reversing the process of profusion, viz. by non-repetition and by overstepping. Not to repeat is to take (sing) only once as elucidated by 'K'. That is practised with regard to the notes other than the fundamental ones and those that are to be eliminated in the process of forming hexatonic and pentatonic varieties.

11. अन्तरमार्गः

न्यासादिस्थानमुज्झित्वा मध्ये मध्ये ऽल्पतायुजाम् । स्वराणां या विचित्रत्वकारिण्यंशादिसंगतिः ।।१२।। अनम्यासैः क्वचित्क्वापि लङ्घनैरेव केवलैः । कृता सा ऽन्तरमार्गः स्यात्प्रायो विद्याजातिषु ।।१३।।

11. Antaramārga: (52-53)

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Sparing the positions of the final and other¹ notes, taking in-between the rare³ notes intermittently³, the concordance that is established with the fundamental and other⁴

- 5. Langhanam of the text.
- 6. 'It' stands for overstepping.
- 1. The positions of the final, the semifinal, the initial and the fundamental notes as well as the saimyasa and vinyasa notes, according to 'K'.
- 2. Alpata-jujām svarāņām literally rendered would read, "of the notes served with rareness", i. e. rare notes.
- 3. Madhye madhye: The repetition of madhya is suggestive of intermittent occurrence of the rare notes in-between the positions of notes enumerated in (1) above.
- 4. Adi is interpreted by 'K' here as well, as referring to the initial, the semifinal and such other notes.

^{1.} Alpatvam of the text.

^{2.} Abhydsa of the text which has already been explained.

^{3.} Notes other than the fundamental ones, i. e. the sonant and the co-fundamental notes.

^{4.} That is, the notes omitted in order to form hexatonic (sadava) and pentatonic (auluva) structures.

Section 7 : Jati-s (Melodic types)

(Because) here, in the sky, the stars (udu-s) move about, it is called uduvam by the sages; and that is fifth among the (great) elements³; the number five derived from it⁴ is *auduvi* (fiver), and (therefore) the notes of that (number) are accepted to be *auduva* (pentatones). When these⁵ as such occur in a musical composition⁶ it is said to be 'made as pentatonic' (*auduvita*) and this group⁷ of five notes being related to it is known⁶ as pentatonic (*auduva*). (55-57b)

The author is presenting here a semantic derivation of the two terms sadava and auduva, the former signifying a musical composition or a song composed with six notes and the latter with five notes. Both the names are derived from the numbers six and five, of which the former naturally holds good and the latter is obviously laboured and seems to be far-fetched. It is said that the word auduaa (pentatonic) is finally derived from the word udu. The text of the verses 55-57b gives us this derivation in the following five stages; worked backwards :

(i) The word derived is.....auduva (pentatonic).

- (ii) Auduva (pentatonic) is a group of five notes belonging to a song which is made pentatonic (auduvita).
- (iii) Auduvita is the name of that song which is qualified by the number five (auduvi).
- (iv) Auduvi (the number five) is derived from uduvam (sky) because it is the fifth of the five great elements.
- (v) Uduvam (sky) is so named because it is the dwelling place of udu-s (stars). (55-57b)

Hexatonic and pentatonic forms of jati-s are formed by eliminating one or two notes respectively; but these forms are possible of those jati-s that are capable of being modified through incompleteness, and most of these jati-s therefore necessarily have three forms, viz. complete, hexatonic and pentatonic. Here, the author says that the notes, which by being eliminated from the complete forms become the cause of the

- 3. That is, if counted in the order of dissolution, viz. earth, water, fire, air and space; but they evolve in the reverse order.
- 4. From the fact that the sky is the fifth element.
- . The five notes called pentatones.
- 6. Literally, in a song.
- 7. Combination of five notes seems to be implied.
- 8. 'S' says, "Known to Bharata and his successors."

Treatment of Svara

notes which creates an artistic variety⁵ sometimes by nonrepetition and somewhere by overstepping only, is (called) *antaramārga* and is generally (found) among modified *jāti-s.* (52-53) 「日本に、三国王のたいため」の「日本の

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12 पाडवम्

षडवन्ति प्रयोगं ये स्वरास्ते पाडवा मताः । षट्स्वरं तेषु जातत्वाद्गीतं षाडवमुच्यते ॥४४॥

13. औडुवम्

वान्ति यान्त्युडवो ऽत्रेति व्योमोक्तमुडुवं बुधैः । पञ्चमं तच्च भूतेषु पञ्च्चसंख्या तदुद्भवा ।।११॥ ओडुवी सा ऽस्ति येषां च स्वरास्ते त्वौडुवा मताः । ते संजाता यत्र गीते तदौडुवितमुच्यते ।।१६॥ तत्सम्बन्धादौडुवं च पश्चस्वरमिदं विदुः । क्रमादल्पाल्पतरते षाडवौडुवकारिणोः ॥१७॥ सम्पूर्णत्वदशायां स्तः, पञ्चम्यां तु विपर्ययः । वचनं विधिरप्राप्ताविहाल्पत्वबहुत्वयोः ॥१६॥ परिसंख्या द्वयोः प्राप्तावेकस्यातिशयाय यत् ।

12 &13. Hexatonic (sādava) and pentatonic (auduva) formation : (54-59 b)

The six notes that preserve¹ a (musical) performance² are accepted to be hexatones, and the song arising out of those six is called hexatonic (sadava). (54)

- 5. 'K' elucidates that the consonance with the fundamental note etc., becomes delightful when served by the ascending and other movements creating wonderful tonal structures with note-series and so on.
- 1. Avanti lit. means protect (from the root av to protect).
- 2. Prayoga technically means 'performance or rendering' and in this context, it pertains to a musical composition or a song. The word is otherwise applicable to all the performing arts.

In the state of completeness, the notes causing hexatones⁹ and pentatones¹⁰ respectively become rare¹¹ and rarer¹², while it is the reverse with *pañcamt*. (57c-58b)

Rareness and profusion not being obtained (in the ordinary course) the statement (obtaining them) forms a specific rule (vidhi). In case of two (possibilities) obtaining, the pre-eminence of one is by exclusive specification (parisatkhyā). (58c-59b).

hexatonic and pentatonic formations, in the state of completeness (while they are not being eliminated), are respectively employed rarely and very rarely, i. e. those that are the makers of hexatonic forms (gadava-kart) are characterised by rareness and those that are the makers of pentatonic forms (auduvakart) are characterised by greater rareness. But in the case of $pa\bar{n}camt jati$ this rule is applied in reverse order, the pentatone-makers being rare and the hexatone-makers being rarer. (57c-58b).

It has been stated (just before this) that with regard to rareness in the state of completeness of *jati-s* the ordinary rule is applicable to *pañcami* in the reverse order. The question is why such a transgression of the rule is permitted. The simple answer to it is that it is ordained by a rule, which is framed by ancient authorities. However, the author explains this exception in the light of relationship obtaining between the concepts *oidhi* (rule) and *parisankhya* (exclusive specification) as found in the *Mimamsa* system of Indian Philosophy. In order to understand the real import of the text one has to be clear about these two concepts as applied to the situation obtaining with reference to the provision of rareness and profusion in the *pañcami jati*.

Vidhi means a rule or a precept that enjoins something for the first time, while *parisankhya* means such specification that acts as a limitation to what is expressly mentioned.

"Let one offer twilight worship in the morning" is a religious injunction cited as an example of *vidhi* by 'K'. One cannot by any means know whether one should or should not perform a religious ceremony except by the injunction of a sacred book. The point is that the rule is laid down for a certain observance by an unquestionable authority.

'K. R.' cites an example for *parisankhyā* (exclusive specification) in the statement: "the five-clawed (animals) may be eaten." Eating of meat is known by experience. This statement gives a preference to the meat of five-clawed animals. It results in prohibition of the meat of animals other than the five clawed ones.

The structure of pañcami is described subsequently (verse 73-75b) wherein it is said that sa, ga and ma are rare notes in it; and the hexatonic and pentatonic forms are respectively caused by the elimination of ga, and ni and ga. So ordinarily ni and ga being the makers of hexatonic and pentatonic forms, should, in the state of completeness, respectively be rare and rarer. Thus, of the notes that are declared to be rare, viz. sa, ga. ma, the first and the last, viz. sa and ma are not obtained in the usual process; they are given as a rule (vidhi). On the other hand, nisada is declared to be one of the semifinal notes by Bharata (as quoted by 'K' in his commentary) and therefore to be taken profusely. So we have a contradiction in so far as the same note (nigada in this case) cannot in the same jati be a rare as well as a frequent note. This contradiction, as observed by 'K' is sought to be removed through the distinction made between vidhi and parisankhya. Both ga and ni are given as rare notes (in the state of completeness), so in order to bring the rareness of ga into prominence, that of ni is discarded; and this is parisankhya.

ग. जातीनां विशेषलत्त्रणानि

अथ प्रत्येकमेतासां जातीनां लक्ष्म कथ्यते ॥ १९॥

1. षाड्जी जातिः

षाड्ज्यामंशाः स्वराः पञ्च निषादर्षभर्वाजताः । निलोपात्षाडवं सो ऽत्र पूर्णंत्वे काकली क्वचित् ॥६०॥ सगयोः सधयोश्र्वात्र संगतिर्बहुलस्तु गः । गान्धारे ऽंशे न नेर्लोपो मूर्च्छना धैवतादिका ॥६१॥ त्रिधा तालः पञ्चपाणिरत्र चैककलाऽऽदिकः । क्रमान्मार्गाश्चित्रवृत्तिदक्षिणा, गीतयः पुनः ॥६२॥ मागधी संभाविता च पृथुलेति क्रमादिमाः । नैष्क्रामिकध्रुवायां च प्रथमे प्रेक्षणे स्मृतः ॥६३॥ विनियोगो, द्वादशात्र कला अष्टलघुः कला ।

^{9.} Şādava.

^{10.} Auduva.

^{11&}amp; 12. 'K' interprets alpa and alpatara respectively as anabhyasa (non-repetition) and langhana (overstepping).

अस्यां षाड्रज्यां षड्जो न्यासः । गान्धारपञ्चमावपन्यासौ । वराटी दृश्यते । अस्याः प्रस्तारः---

१. षाड्जी

S+ *	119,1	••						
१.	सा	सा	सा	सा	वा	निध	पा	ঘনি
	तं		મ	व	ल	ला		ਟ
ર.	रो	गम	गा	गा	सा	रिग	धस	धा
	न	य	नां		बु	जा		धि
₹.	रिग	सा	रो	गा	सा	सा	सा	सा
	कं							
۲.	धा	धा	नी	निसं	निध	पा	संा	संा
	न	ग	सू		नु	Я	ण	य
¥.	नो	धा	पा	धनि	रो	गा	सा	गा
	के		लि		स	मु		લ્મ
६.	सा	धां	धंनि	पां	सा	सा	सा	सा
	वं							
9.	सा	सा	गा	सा	मा	पा	मा	मा
	स	र	स	ক্ত	त	ति	ल	क
ς.	सा	गा	मा	धनि	निध	पा	गा	रिग
	षं			का	नु	ले	ч	
९.	गा	गा	गा	गा	सा	सा	सा	सा
	नं							
१ 0.	धां	स।	री	गरि	स।	मा	मा	मा
	স	ण	मा		मि	का		म
११.	धा	नी	पा	धनि	री	गा	री	सा
	दे		Ŕ		घ	ना	न	
१२.	रिग	सा			सा	सा	सा	सा
	लं							
	१. २. ३. ४. ४. ४. ४. ९. १. १.	 श. सा तं तं २. रो न ३. रिग कं धा न भेके धा न सा सा	श. सा सा तं गम २. रो गम न य ३. रिंग सा कं धा धा ४. धा धा ४. नी धा ४. नी धा ५. नी धा ६. सा सा ५. नी धा ६. सा गा ५. गा गा ५. घा नी १. गा गा ५. गा गा ५. घा नी १. गा गा ५. गा गा ५. घा नी १. घा नी १. घा नी १. घा<	श. सा सा सा सा तं भ तं भ २. रो गम गा ना ना न य नां ३. रिग सा रा रो कं ४. धा धा नी ना मा सा म. नो धा नी ना मा सा ४. नो धा पा ते सा ४. नो धा नी ला सा ४. नो धा मा सा ४. नो धा मा ६. सा सा गा सा स. सा मा गा मा तं प ५. मा गा मा तं ग ५. मा गा मा पं मा ५. मा गा मा पं मा ५. मा गा मा ५. मा गा मा पं मा १२. मा गा मा पं मा १२. मा ना २. मा गा मा पं मा २. मा ना ५. मा ना २. मा ना २. मा ना २. मा ना २.	श. सा सा सा सा सा तं भ व २. रो गम गा गा न य ना गा ३. रिंग सा रो गा ३. रिंग सा रो गा ३. रिंग सा रो गा ७. धा धा नी निर्तं ४. नो धा ग सा ४. नो धा पा धान ४. नो धा पा धान ४. नो धा गा सा ५. सा सा गा मा ५. सा गा गा गा ५. गा गा गा गा ५. गा गा गा गा ५. <td< th=""><th>श. सां सां सां सां पां तं भ व २. रो गम गा गा न य नां बु ३. रिंग सां रों गा सां ३. रिंग सां रों गा सां ३. रिंग सां रों गा सां ४. धा धा नो निसं निध ४. नो धा गा धनि रो ४. नो धा गा धनि रो ४. नो धा गा धनि रो ४. नो धा गा धनि रा ४. नो धा गा सा सा ४. नो धा गा सा सा ४. सा सा गा सा मा ५. सा सा गा सा ना ५. सा गा गा सा ना ५. गा गा गा<th>श. सां सां सां सां पां निध तं भ व ल रो गम गा गा सां न य नां बु जा २. रो गम गा गा सा रिग २. रिग सा रो गा सा सा २. रिग सा रो गा सा सा २. रिग सा रो गा सा सा २. सा धा नी निसं निप पा २. नो धा गी धनि री गा २. नो धा गी धनि री गा २. नो धा गा सा सा सा सा सा २. सा सा गा सा सा</th><th>श. सा <t< th=""></t<></th></th></td<>	श. सां सां सां सां पां तं भ व २. रो गम गा गा न य नां बु ३. रिंग सां रों गा सां ३. रिंग सां रों गा सां ३. रिंग सां रों गा सां ४. धा धा नो निसं निध ४. नो धा गा धनि रो ४. नो धा गा धनि रो ४. नो धा गा धनि रो ४. नो धा गा धनि रा ४. नो धा गा सा सा ४. नो धा गा सा सा ४. सा सा गा सा मा ५. सा सा गा सा ना ५. सा गा गा सा ना ५. गा गा गा <th>श. सां सां सां सां पां निध तं भ व ल रो गम गा गा सां न य नां बु जा २. रो गम गा गा सा रिग २. रिग सा रो गा सा सा २. रिग सा रो गा सा सा २. रिग सा रो गा सा सा २. सा धा नी निसं निप पा २. नो धा गी धनि री गा २. नो धा गी धनि री गा २. नो धा गा सा सा सा सा सा २. सा सा गा सा सा</th> <th>श. सा <t< th=""></t<></th>	श. सां सां सां सां पां निध तं भ व ल रो गम गा गा सां न य नां बु जा २. रो गम गा गा सा रिग २. रिग सा रो गा सा सा २. रिग सा रो गा सा सा २. रिग सा रो गा सा सा २. सा धा नी निसं निप पा २. नो धा गी धनि री गा २. नो धा गी धनि री गा २. नो धा गा सा सा सा सा सा २. सा सा गा सा सा	श. सा सा <t< th=""></t<>

[तत्र साकल्येन पदयोजना]

[तं भवललाटनयनाम्बुजाधिकं नगसूनुप्रणयकेलिसमुद्भवम् । सरसकृततिलयपङ्कानुलेपनं प्रणमामि कामदेहेन्धनानलम् ।।]

C. The characteristic features of the particular jāti-s: 59c-109

Now the characteristic features of each of these (jati-s) are described. (59cd)

(i) Sadji: (60-64)

In sadji there are five¹ fundamental notes leaving aside nisāda and ŗsabha. The hexatone is (formed) by the elimination of ni, which in the state of its being complete sometimes becomes kākalī. Sa and ga and sa and dha are in concert (sangati); ga is profuse. In the event of gāndhāra being the fundamental note ni cannot be eliminated, (its) mūrcchanā commences with dhaivata. Here, the tāla (beat-cycle) is threefold pañcapāņi which as ekakala and so on² is respectively⁸ set in the citra, vŗțți⁴ and dakşiņi mārga-s (span) and again in māgadhī, sambhāvitā and pṛthulā gīti-s in due order.⁵ Its proper application (viniyoga) is known to be in the naişkrāmikī dhruvā⁶

- 1. These are sa, ga, ma, pa, dha.
- 2. Here, in sadji, the tala is pañcapani (sat-pitaputraka) which is threefold, viz. ekakala, dukala and catuskala. These are defined in Chapter V.
- 3. That is, in the ekakala pañcapāņi the mārga to be adopted is citra, in dvikala, vītti and in catuşkala, dakşiņa mārga.
- 4. Vartika is another name given to it.
- 5. That is, ekakala, dvikala and catuşkala respectively are in magadhi, sambhavita and pithula giti-s.
- 6. It is the song of naiskramiki dhruva, as composed after the melodic pattern set in the sadji jati which is employed in the the first act of a drama Dhruva is a name for a particular class of songs sung in dramatic performances. These are of five types, viz. pravešiki, aksepiki, prasadiki, antara and naiskramikt which are used in different junctures from a technical point of view.

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in the first act (of a drama). There are twelve kalā-s⁷ of eight laghu-s⁸ (shorts) each. (60.64b)

In this sādjī the final note is sādja, the semifinal notes are gāndhāra and pañcama and varāțī is seen (through it). Its prastāra⁹ (elaboration) follows :

1.	să Tam	sā	sā bha	sā <i>va</i>	pä la	ni-dha là	pā	dha-ni <i>fa</i>
2.	ri na	ga-ma <i>ya</i>	ga nam	gā	sā bu	ri-ga ja	dha-sa	dha dhi
3.	ri-ga <i>kam</i>	sā	ri	g ā	sā	sā	55	5 ā
4.	dhā na	dhā ga	ពរ រជ៍	ni-sa	ni-dha nu	pā pra	sā ņa	sā ya
5.	nI ke	dhā	pä <i>li</i>	dha-ni	rī sa	gā mu	sā	gā dbha
6.	sā vam	dhā	dha-ni	dha-pa	I sa	sā	5 3	sā
7.	sā Sa	sā ra	gā <i>sa</i>	sā kr	mā 14	pā ti	mā la	mā ka
8.	sā paù	ga	រោងិ	dh a -ni ka	ni-dha 1.u	pā le	gā pa	ri-ga
9.	gā nam	gā	gā	s .1	5ā	รอิ	sā.	sā
10.	dhā pra	sā ŗa	rī mā	ga•ri	sîi mi	mā ka	mā	mā ma
11.	dhā <i>de</i>	111	pa hen	dha•ni	rî dha	gā na	rī na	55
12.	ri-ga <i>lam</i>	sā	rī	gā	รล์	\$.Î	sā	5ā

7. Kala is understood by Nijenhuis as 'variable time unit' which brings out the idea so well, but it being a phrase, she has not herself used it as an equivalent term. Here it seems to imply a phrase, a tonal sector structured upon a verbal unit in a definite time space.

8. 'K' points out that in the context of tala, laghu is the measure of time taken to pronounce five short syllables. And eight such laghu-s constitute one kalā. Thus the kalā spoken of here pertains to dakṣiṇa mārga as the author himself says in verse subsequently. 'S' reads eight guru-s (longs) in place of eight laghu-s. 'K' elucidates that the prescribed form of tala is catuşkala. In the Vārtika mārga, i. e. in doikala form it will have twentyfour kalā-s of four laghu-s each, while in the citra mārga, i. e the ekakala form it will have fortyeight kalā-s of two laghu-s each (See 'K' on 111 cd. and 112 ab).
9. It has not been possible to give signs for taka.

It has not been possible to give signs for *tara-mandra* in the notations reproduced in the Roman script.

The author now describes (from verse 60 109) the distinguishing features of each of the eighteen *jati-s* separately. It would be observed from the above description that the *jati* songs in various forms constituted a part and parcel of the dramatic episodes and their technique of presentation and contributed in terms of musical effect to the creation of aesthetic delight (*rasa*). This explains their relation to *rasa* and also presents the perspective in which the *jati-songs* must be viewed.

It is notable that Saragadeva, in addition to the juli-laksana-s (characteristic features of jati-s) also invariably mentions the commencement of the murchana as an added essential feature. In Bharata's system it was understood that the fundamental note which is also the initial note would be the commencing note of the murchand. So, in a way Sarngad va is recording a departure from that notion, and it seems that it is based on Matanga's twolve-tone (dvadasa-svara) murchana-s, a concept brought into being by such ancient authorities as Kohala and Nandikesvara (as quoted by him vide Br. D. p. 32) and elaborated by him. As each jati has more than one fundamental note (as capable of being used). Bharata's system of seven-tone (sapla spara) murchana-s (also otherwise spoken of by Matanga) could easily be worked on stringed instruments of the harp type, that had as many as twentyone strings, but it was not suited to the fretted instruments of the lute type with fixed note positions. It is conjectured that when such instruments appeared during the times of Matange and others, it was found difficult to work out the seven-tone mirrechand-s on them, since every time the fundamental note of a jati was changed it required a different tuning of the instruments. Therefore a system comprising notes of three registers such as two of the lower, seven of the middle and three of the higher was invented to obviate this difficulty and to obtain the structure of a ruga or a bhasa, etc. within the range of twelve notes. So the very purpose of mirchana was extended to include the comprehension of the tonal structure (outline) of a raga and so on (see S. Chintamani, p. 66).

However Kallinätha seems to have identified the seven-tone *mürcchanā-s* of Bharata with the twelve-tone *mürcchanā-s* of Matañga quietly accepted in this context by Śārńgadeva, without mentioning them as such anywhere else. But such an identification is obviously erroneous. The expression *dhaivatādi* of the text (i. e. commencing with *dhaivata*) is borrowed from Matañga and refers to the twelve-tone *mūrcchanā-s* innovated by him. The twelve-tone *mūrcchanā-s* of Matañga are illustrated as under :

Şadja-grāma

30 ł

1	•	dha	ni	sa	ri	ga	ma	ра	dha	ni	sa	ri	ga
2	•	ni	sa	ri	ga	ma	pa	dha	ni	sa	ri	ga	ma
3	•	sa	ri	ga	ma	ра	dha	ni	sa	ri	ga	ma	pa
4	•	ri	ga	ma	pa	dha	ni	sa	гі	ga	ma	pa	dha
5	•	ga	mą	pa	dha	ni	sa	ri	ga	ma	ра	dha	ni
6	•	ma	pa	dha	ni	sa	ri	ga	ma	ра	dha	ni	8a
7	•	pa	dha	ni	sa	ri	ga	ma	pa	dha	ni	sa	ri

Madhyama-grama

1.	ni	sa	ri	ga	ma	pa	dha	ni	sa	гі	ga	ma
2.	sa	ri	ga	ma	pa	dha	ni	sa	ri	ga	ma	pa
3.	ri	ga	ma	ра	dha	ni	\$a	ri	ga	ma	pa	dha
4.	ga	ma	pa	dha	ni	sa	ri	ga	ma	pa	dha	ni
5	ma	ра	dha	ni	sa	ri	ga	ma	pa	dha	ni	sa
6.	pa	dha	ni	sa	ri	ga	ma	pa	dha	ni	są	ri
7.	dha	ni	sa	ri	ga	ma	pa	dha	ni	sa	ri	ga
(Cf. Brihaspati : Bharata kā Sangīta Siddhanta 1959, pp. 51, 52)												

It will be noticed that, whereas the seven-tone $m\bar{u}rcchan\bar{a} \cdot s$ are formed in descending order, these twelve-tone $m\bar{u}rcchan\bar{a} \cdot s$ are formed in ascending order in succession. Our comments on S. R. I. 49 may also be referred to in this context. However, the concept of twelve-tone $m\bar{u}cchan\bar{a} \cdot s$ is a significant development in the history of Indian music, since it is linked with the advent of fretted stringed instruments. But it may also be noted that it was not able to hold ground for long and was later abandoned by such writers as Kumbha. Even Śārńgadeva did not find it necessary to expound it.

Technical terms with regard to the practice of *Tala* will be dealt with adequately in chapter V entitled *Taladhyaya*. (60 64b)

With respect to the final note in the sadji, 'K' elaborates the idea: "in the modified form of sadji despite the non-applicability of the rule (of *suddhata*) with regard to the initial note and so on, the denominative note is the final note in the *suddha* as well as the modified forms." However, the statement of the text that, gaudhara and *pañcama* are the semifinal notes, applies to its modified forms only, since in the *suddha* state it is *sadja*, the denominative note, that has to be the semifinal note. The expression varā! d_i suggests, according to 'K', that at places sadji appears to be varā! (raga) and he says it happens when kākalī is employed in the modified form (of sadjī).

Prastara, in this context is defined by 'K' as "the arrangement of notes in the (different) kala-s". The prastara given here pertains to the scale of standard notes in the sadja-grāma. There are, as already pointed out, twelve kalā-s with eight laghu-s each. Single notes are written with a long vowel and more than one notes with a short vowel are put together, with the same time-value. The lower register is indicated in the text by a dot (-) above and the higher register by a vertical stroke (-) above. The couplet (or the verse) represents the literary composition, the text of the song and is said to be composed by Brahmā with its syllables set to the tones distributed in the kalā-s as indicated. The purport of the verse is as under :

Obeisance to that extra eye-lotus in the forehead of Lord Siva, the product of the amorous sport of Pārvatī, the bearer of the ointment of the moist paste of unguents of the *tilaka* mark and the fire of the fuel of the cupid's body.

The number of notes used in it, counted from the point of view of assessing their relative profusion or rarity, is as under:

Şudja		36	Pañcama		8
<u> Kşabha</u>		12	Dhaivata		16
Gandhara	-	20	Nişāda	_	12
Madhyama	—	8		~	
			Tot	al :	112

This is the prastara of sadji with sadja for its fundamental note. The rasa or the aesthetic delight in all the jati-s is declared to be in accordance with the fundamental note. Other prastara-s of sadji with gandhara etc. as its fundamental notes are similarly to be conceived on this pattern.

2. आर्षभी जातिः

आर्षभ्यां तु त्रयो ऽंशाः स्युनिषादर्षभधैवताः ॥६४॥ द्विश्रुत्योः संगतिः शेषैर्लङ्घनं पञ्चमस्य च। षाडवं षड्जलोपेन सपलोपादिहौडुवम् ॥६४॥ मूर्च्छना पञ्चमादिइच तालश्चच्चत्पुटो मतः । अष्टौ कला भवन्तीह विनियोगस्तु पूर्ववत् ॥६६॥ अस्यामार्षभ्यामृषभो न्यासः । अंशा एवापन्यासाः । देशोमधुकयौ दश्येते । अस्याः प्रस्तारः---

२. आर्षभी

\ .							
१.	री गा गुण	। सा लो	रिग	मा च	रिम ना	गा	रिरि घि
२.	री री क म	निध न	निध	गा न्त	रिम म	मा म	पनि र
२.	मा घ म ज्	तानी गर	धा म	पा	पा	सा क्ष	
૪.	नी घ म जे		गरि	सर्ध	गरि	री यं	री
Χ.	री म प्र ण	त गरि ग	र सधं मा	सस	रि	रिग मि	मम दिव्य
દ્દ	निध प म	ग रो ण द	री	रिप पं	गरि णा	सधं	सा म
७.		रिस रिग नि के				मा तं	गरि
5,		नि री व म			र सधं	गरि	गरि यं

[तत्र साकल्येन पदयोजना] [गुणलोचनाधिकमनन्तमभरमजरमक्षयमजेयम् । प्रणमामि दिव्यमणिदर्पणामलनिकेतं भवममेयम् ।।]

(ii) Arşabhī : 64c-66

In ārşabhī, however¹, there are three fundamental notes, viz. nişāda, dhaivata and rşabha; gāndhāra and nişāda are in concert² (sangati) with the rest (of the notes), and pañcama is to be overstepped³. The elimination of sadja (causes) the hexatonic (form) and that of sadja and pāñcama, the pentatonic one; its mūrcchanā commences with pañcama and caccatpuța is accepted as its tāla. It has eight kalā-s and its proper application is like that of sādjī⁴ (lit. as before) (64c-66).

In this⁵ $\bar{a}rsabh\bar{i}$ the final note is rsabha, the fundamental notes⁶ are the semifinal notes, and $des\bar{i}$ and $madhukar\bar{i}$ are seen (in it)⁷. Its prastāra⁶:

1.	ri Gu	gă ņa	să lo	ri-ga	mā ca	ri-ma na	gā	ri ri dhi ^v
2.	ri ka	ГĨ ma	ni-dha <i>na</i>	ni-dha	ga nta	ri-ma <i>ma</i>	ma ma	pa•ni ra
3.	тā ma	dhā ja	nî Va	dhā ma	pa	på	sā ksa	gā <i>ya</i>
4.	nî ma	dha•ni je	rI	ga-ri	sa-dha	ga-ri	ri yam	rī
5.	ri Pra	ma µa	ga-ri	sa-dha mā	sa-sa	ri-sa	ri-ga mi	ma-ma divya
6.	ni∙dha ma	pä ņi	rî da	rf	ri-pa <i>rþa</i>	ga-ri çZ	sa-dha	sā ma
7.	ri-sa la	ri sa ni	ri-ga ke	ri-ga	mä	mā	mā <i>tam</i>	ag-ri
8.	pā bha	nî va	r I ma	ınā 	ga∙ri	sa-dh a	ga∙ri	ag-ri <i>yam</i>

2. 'K' elucidates that each of them is separately in concert with the other notes.

- 3. 'K' takes *laighana* in the sense of *alpatara*, 'being very rare' and 'S' takes it in the sense of *tşat-sparsa* 'slight touch'. This is applicable only to its state of completeness.
- 4. That is, in the naişkrāmiki dhruvā.
- 5. The one that has been described above.
- 6. That is, nişāda, fşabha and dhaivala.
- 7. 'K' says arşabhi gives the impression of desi and madhukari when Işabha is dominant.
- 8. The number of different notes employed can be computed from the prastara, and the prastara-s oriented by other fundamental notes of arşabhi (i. e. ni and dha) can be worked out on the above pattern.

- The purport of the text is as under :

Obeisance to Bhava (Siva) having the three guna-s for his eyes, the endless, immortal, undecaying, indestructible and invincible, the pure abode of mirror-like divine jewels and the immeasurable (one).

"K' roule a dikam instand of Allian

^{1.} The use of the indeclinable tu, as pointed out by 'K', distinguishes the order of arşabht from that of şudji.

308 Treatment of Svara	Section 7 : J
3. गान्धारी जातिः	प्त. निध पनि मा मव
पञ्चांशा रिधवर्ज्याः स्युर्गान्धार्यां संगतिः पुनः ।	म मृतभ
न्यासांशाभ्यां तदन्येषां घैवतादृषभं व्रजेत् ।।६७।।	९. रीगामा पध
रिलोपरिघलोपाभ्यां षाडवौडुविते क्रमात् ।	र जतगि
पञ्च्चमः षाडवद्वेषी निसमध्यमपञ्च्चमाः ।।६८।।	१०. नीं नीं नीं नें
अंशा द्विषन्त्यौडुवितं कलाः षोडश कीर्तिताः ।	मणिशक ल
भूर्च्छना धैवतादिः स्यात्तालश्चच्चत्पुटो मतः ॥६९॥	११, गागम पापाध
बिनियोगो ध्रुवागाने तृतीयप्रेक्षणे भवेत् ।	वर युव
अस्यां गान्धार्यां गान्धारो न्यासः । पड्जपञ्चमावपन्यासौ ।	१२. निध पनि मा मप
गान्धारपञ्चमदेशोवेलावल्यो दृश्यन्ते । अस्याः प्रस्तारः	पं क्तिनि
३. गान्धारी १. गा गा सा नीं सा गा गा ए तं	१३. नीनोपानोग प्रणमा रि
२. गा गम पा पा धप मा निध निसं	१४. गांसागा ग
र ज नि व धू मु ख	र तिकल ह
३. निध पनि मा मपरि गा गा गा वि ज्ञ म दं ४. गा गम पा पा घप मा निध निसं) १४, गापामामा दिं
निशाम यवरो रु	१६. मा परिंग गा गा
४. निध पनिमामपरिमागामासा	श शि
त व मुख विला स	[तत्र साक
६. गासागागागागमगागा	[एतं रजनिवधूमुखविभ्र
व पुश्र्यारु म म ल	भवमुखविलासवपुष्ठ
७. गा गम पा पा घप मा निघ निसं	रजतगिरिशिखरमणिशकला
मृ दु कि र ण	प्रणमामि प्रणय

•

		Se	ection	17:	Jali	-s (M	elodi	ic*type	25)
5.	निध	्प	नि ग	माः	मवरि	: गा	गा	गा	गा
	म	मृ	į	त भ	म	वं			
९.	री	गा	मा	पध	री	गा	सा	सा	
	र	স	त	गि	रि	शि	ख	र	
٥.	नीं	नीं	नों	नीं	नीं	नीं	नीं	नीं	
	म	णि	য	क	ल	शं		ख	
१.	गा	गम	षा	पा	धप	मा	नि	ঘ নি	ासं
	व	र	यु	व	ति	दं		त	
२.	निध	। प	नि ।	नाः	मपरि	ा गा	ग	गा	गा
	पं		ł	क्ति '	नि	મં			
રૂ.	नी	नी	पा	नो	गा	मा	गा	सा	
	я	ण	मा		मि	я	ण	य	
۲.	गा	सा	गा	गा	गा	गम	गा	गा	
	र	ति	क	ल	ह	र	व	नु	
X.	गा	पा	मा	मा	निध	। नि	र्स 1	नेध	पनि
	दं								
ξ.	मा	परि	ग व	ता व	गा भ	गा ग	tt 4	रा ग	r
•		গ্যি				नं			
			ਰਿ	त्र स	ाकल्ये	न पव	त्योज	an]	
एतं	7	रजनि	-					-	वरोरु
נ איי									परार ममृतभव

भवमुखविलासवपुश्चारुममलमॄदुकिरणममृतभवम् । गेरिशिखरमणिशकलशङ्खवरयुवतिदन्तपङ्क्तिनिभं प्रणमामि प्रणयरतिकलहरवनुदं शशिनम् ।।]

(iii) Gandhari : 67-70b

Gāndhārī has fundamental notes¹ barring rsabha and dhaivata, and its final and fundamental notes² are in concert (sangati) with the rest of the other notes. From dhaivata one should proceed to rsabha.³ The hexatonic and the pentatonic (forms) are (caused) by the elimination of rsabha and dhaivata respectively. Pañcama is incompatible⁴ with hexatones and nisāda, sadja, madhyama and pañcama as fundamental notes are not conducive to pentatonic formations. (Its) kalā-s are said to be sixteen, (its) mūrcchanā commences with dhaivata and the tāla is accepted to be caccatpuța. (Its) proper application is in the dhruvā songs of the third act. (67-70b)

In this gandhari, gandhara is the final note, sadja and pañcama are the two semifinal notes, gandhara-pañcama⁵, desi and velavali are seen.⁶ Its prastara⁷:

- 1. That is, sa, ga, ma, pa, ni.
- 2. Gandhara is its final note; so, ga or sa, ga, ma, pa, ni when any of them is the fundamental note, these two notes are in concert with notes other than these two.
- 3 'K' infers from this rule that perhaps in the state of completeness of gandhari, 1 sabha and dhaivata may be in concert.
- 4. 'K' here, comments : "when pañcama is the fundamental note, gandhari is naturally complete, i. e. no other forms are possible with ni, sa and ma as the fundamental notes; and hence it is only when gandhara is the fundamental note that all the three formations, viz. complete, hexatonic and pentatonic are possible."

'K. R.' rightly points out that, "this is a madhyama-grāma jāti. In the madhyama-grāma pa has ri as its samvādī (consonant), and in this jāti, the ādava is by dropping ri. But samvādī (consonant) shall not be dropped. So there is no sādava when pa is the amisa. For the same reason, when pa is amisa there can be no auduva (pentatone) which is effected by dropping ri and dha. As for there being no auduva when the other svara-s are amisa-s it is based on the words of Bharata." (S. R. Vol. I, Chap. I. p. 104). This observation is based on Kallinātha's comments.

- 5. Gandhara-pañcama is a grama-raga.
- 6. That is, they partly appear.
- 7. This represents the prastara of gandhart with gandhara as its fundamental note.

The purport of the verse is as under ;

Section 7 : Jati-s (Melodic types) 311												
	1.	gब E	gā	sā	nî	să Iam	gā	ga	gä			
	2.	gā ra	g a-m a <i>ja</i>	pā ni	pā va	dha-pa <i>dhū</i>	mā	ni-dha <i>mu</i>	ni•sa <i>kha</i>			
	3.	ni-dha vi	pa∙ni	mā	ma-pa-ri <i>bhra</i>	gā ma	gā dam	mā	gā			
	4,	ga ni	ga-ma sa	pā ma	pā Ja	dha-pa va	mā ro	ni-dha	ni-sa <i>ru</i>			
	5.	ni-dha bha ⁸	pa-ni va	mā mu	ma-pa-ri <i>kha</i>	ma vi	gā La	mä	sā sa			
	6.	gā va	sā Pu	gā śca	gā ru	gā	ga ma <i>ma</i>	gā ma	gā la			
	7.	gā m r	ga-ma du	pā ki	pā ra	dha-pa <i>ųa</i>	mä	ni-dha	ni-sa			
	8.	ni-dha <i>ma</i>	pa-ni <i>mt</i>	mā ta	ma-pa-ri <i>bha</i>	gā vam	gā	gå	gð			
	9.	rî Ra	yā ja	mā ta	pa-dha gi	ri ri	gá Si	sā kha	sā ra			
	10,	ni ma	ni ņi	ni \$a	ni ka	ni la	ni <i>šai</i> n	ni	ni kha			

Listen, O maiden with beautiful thighs!* I bow down to this moon which presents as it were the illusion of being the face of the night appearing as a bride, which is beautiful on account of its being the embodiment of the lustre of Siva's face, which emits pure and soothing rays, which is the source of nectar, which (shines) like the crystals of the crest of a silver mountain, a conch-shell and a streak of (pearl) teeth of a beautiful damsel, and which enhances (the charm of) the noise of sportive amorous quarrels.

- 8. The Adyar ed. of S. R. as well as 'K' read tava mukha (meaning 'your face') but S. Raj reads it as Bhavamukha, i. e. Siva's face. This has been taken as an error of the scribe and the reading bhavamukha has been adopted in our text for that is more cogent.
- Comp. S. Raj (Vol. I, p. 211) which reads nisatamo apanudam (meaning, 'the dispeller of the darkness of hight') instead of nisamaya varoru as printed in the Adyar ed. of S. R. and also followed by 'K'. The reading of S. Raj is definitely better and more befitting in the context of a prayer. Obviously both are deriving from a common source of tradition.

312			Tre	eatment of	Svara				
11.	gā Va	ga-ma <i>ta</i>	pa yu	pā va	dha-pa ti	mā dan	ni-dha	ni-sa ta	
12.	ni-dha <i>þañ</i>	pa-ni	mä kti	ma-pa-ri ni	g a bham	gā	gā	ga	
13.	nî pra	ni ņa	pā mā	nî	gā mi	mā pra	gā ņa	sā ya	
14.	gā 14	sā ti	gā ka	gā Ia	gā ha	ga-ma <i>ra</i>	gå va	gā nu	
15.	gā dam	pā	mä	mā	ni-dha	ni-sa	ni-dha	pa-ni	
16.	mä sa	pa-ri-a <i>śi</i>	gā	gā	ga nam	gā	gā	gā	

4. मध्यमा जातिः

पश्चांशा मध्यमायां स्युरगान्धारनिषादकाः ॥७०॥ षड्जमध्यमबाहुल्यं गान्धारो ऽल्पो ऽत्र षाडवम् । गलोपान्निगलोपेन त्वौडुवं स्यात्कलाऽष्टकम् ॥७१॥ ऋषभादिर्मूर्च्छना स्यात्तालश्चच्चत्पुटो मतः । विनियोगो ध्रुवागाने द्वितीयप्रेक्षणे भवेत् ॥७२॥

अस्यां मध्यमायां मध्यमो न्यासः । अंशा एवापन्यासाः । चोक्षषाडवदेश्यान्धाल्यो दुश्यन्ते । अस्याः प्रस्तारः—

४. मध्यमा

१.	मा	मा	मा	मा	पा	धनि	नी	धप
	वा			<u>व</u>	भ	व	मू	
२.	मा	पम	मा	सा	मा	गा	री र	ति
	र्घ	जा			न	न		
રૂ.	वा	मा	रिम	गम	मा	मा	मा	मा
		रो						

४. मं। निध निसं निघ पम पध मा मा म णि द पं णं भ णि द पं णं ५. नों नों रो रो नों रो रो पा गौ रो क र प ६. नों मप मा मा सा सा सा सा त्लवां गु लि सु ७. गं नो सं। गं। घप मा धनि सं। ते जि तं ६. गं नो सं। गं। घप मा धनि सं। ते जि तं ६. गं नो सं। गं। घप मा धनि सं। ते जि तं ६. गं नो सं। गं। घप मा धनि सं। ते जि तं ६. गं सां पा निधप मा मा मा मा सु कि र णं [तत्र साकल्येन पदयोजना] [पातु भवमूर्धजाननकिरोटमणिदर्पणम् । गौरोकरपल्लवाङ गुलिसुतेजितं सुकिरणम् ।।४।।]		Success a success of the second secon
गौ री कर प ६. नों मप मा मा सा सा सा ल्लवां गुलि सु ७. गंनी सा गांधप मा धनि सा ते जि तं द. पा सा पा निधप मा मा मा मा सुकिर णं [तत्र साकल्येन पदयोजना] [पातु भवसूर्धजाननकिरीटमणिदर्पणम् ।	۲.	
ल्लवां गुलि सु ७. गंनी संगिंग धप मा धनि संग ते जितं ८. पा संग पा निधप मा मा मा मा सुकिर णं [तत्र साकल्येन पदयोजना] [पातु भवसूर्धजाननकिरोटमणिदर्पणम् ।	X.	
ते जितं द. पा सं। पा निधप मा मा मा मा सु कि र णं [तत्र साकल्येन पदयोजना] [पातु भवसूर्धजाननकिरोटमणिदर्पणम् ।	۴.	
सु कि र णं [तत्र साकल्येन पदयोजना] [पातु भवसूर्धजाननकिरोटमणिदर्पणम् ।	७.	
[पातु भवमूर्धजाननकिरोटमणिदर्पणम् ।	ч.	
		[तत्र साकल्येन पदयोजना]

(iv) Madhyamā: (70c-72)

There are five¹ fundamental notes in madhyamā excluding gāndhāra and nişāda; şadja and madhyama are profuse, gāndhāra is rare,² hexatone is (caused) by the elimination of gāndhāra and pentatone by that of nişāda and gāndhāra in it; it has eight kalā-s, (its) mūrcchanā commences with rşabha and the tāla is accepted to be caccatpuţa. (Its) proper application is in the dhruvā song of the second act. (70c-72)

In this madhyamā, madhyama is the final note, the very fundamental notes⁸ are the semifinal notes, and coksasādava⁴, desī and andhālī are seen.

^{1.} That is, sa, ri, ma, pa, dha by discretion.

^{2.} This obviously applies to the complete forms.

^{3.} That is, sa, ri, ma, pa, dha.

^{4. &#}x27;K' identifies it ith suddha-sadava which is a grama-raga.

•	314				Trea	utment of	Svara	•		
		It	s prasi	lāra ⁵ :						
		1.	mã Pa	mä	mã	mā <i>lu</i>	pā bha	dha-ni va	nî mû	dha-pa
		2.	mā rdha	pa-ma jd	má	sā na	mā no	gā	rī	rI
		3.	pā	mā	ri-ma	ga-ma	mā	mā	mā	mā
			ki	rī	ţa					
		4.	mā ma	ni-dba <i>ņi</i>	ni-sa da	ni-dha		pa-dha		mā
			****	i	ua		rpa		ņam	
		5.	nî Gau	nI	rī rī	rī	nî ka	rī ra	rî pa	pa
		6.	nf <i>lla</i>	ma-pa van	mā	mā	sā gu	sā li	sā	sā su
		7.	gā Ie	nî	sā	gā	dha-pa	mā	dha-ni ji	sa. Iam
		8.	pā su	sā ki	pā ra	ni-dha-pa	mā ņam	mā	mā	mā

5. पञ्चमी जातिः

रिपावंशो तु पञ्चम्यां सगमाः स्वल्पका मताः । रिमयोः संगतिर्गच्छेत्पूर्णत्वे गान्निषादकम् ।।७३।। क्रमाब्गेन निगाम्यां च षाडवौडुवता मता । ऋषभो ऽंशस्त्यौडुवितं द्वेष्टचष्टौ च कला मताः ॥७४॥ मूर्च्छनाऽऽदि तु पूर्वावत्प्रेक्षणं तु तृतीयकम् ।

5. The purport of the song is as under:

May the mirror of the crest jewel crowning the upper (fifth) face of Siva*, the rays emanating from which are beautiful as they are stimulated by the fingers of the graceful hands of Gauri, protect (us).

· Comp. S. Raj Vol. I, p. 214, which reads Bhavamurddhajanayanam meaning "the upper (third) eye of Siva".

Section 7 : Jati-s (Melodic types)

ऋषभपञ्चमनिषाबा पञ्चमो षञ्चम्यां न्यासः । अस्यां अपन्पासाः । चोक्षपञ्चमदेश्यान्धाल्यो दृश्यन्ते । अस्याः प्रस्तारः-

5

1	X.	पञ्चमो
	१.	पा धनि नी नी मा नो मा पा
		हरंमू र्धजांन
	२.	गा गा सा सा मां मां पां पां
		नंम हे शममर
	३.	पां पां घां नीं नीं नी गा सा
		पतिबा हुस्तं भ
	٧.	पा मा धा नी निध पा पा पा
		नमनंतं
	x .	पा पा री ['] री ['] री ['] री ['] री ['] री [']
		प्रणमा मि पुरुष
	Ę.	मां निंग सा संध नी नीं नी नी
		मुख प द्य ल क्ष्मी
	છ.	संर संर संगमा पा पा पा पा
		हर मंबिका प
	ς.	धा मा धा नी पा पा पा पा
		तिम जे यं
		[तत्र साकल्येन पदयोजना]
		•
	[ह	रं मूर्धजाननं महेशममरपतिबाहुस्तम्भनमनन्तम् ।
		पणमामि पुरुषमुखपद्मलक्ष्मीहरमम्बिकापतिमजेयम् ॥]
v)	Pañ	<i>camī</i> : (73-75b)

(v) Pañcamī : (73-75b)

In pañcami, rsabha and pañcama are the two fundamental notes, sadja, gandhara and madhyama are considered to be very rare¹, rsabha and madhyama are in concert (sangati) and in case of completeness one may proceed from gandhara to nişāda³. The hexatones and pentatones³ are accepted to be (formed) by the respective elimination of gandhara, and nisada and gandhara. Rsabha is not conducive to pentatonic formation when it is the fundamental note⁴, and eight kalā-s are accepted (in it). Its mūrcchanā etc. is like the previous one⁵, excepting that it is used in the third act. (73-75b)

In this pañcami, the final note is pañcama; rsabha, pañcama and nisāda are the semifinal notes; and coksapañcama, deśī and āndhālī are seen.

Its prastāra⁶ :

.

1.	-	dha-ni <i>ram⁷</i>	nī mū	n۲	ınā rdha		má	pā na
2.	gā nam	gā ma	sā he	sā	mā <i>ša</i>	mā ma	ра ma	pā ra

This obviously applies to the complete formations. 1.

- 'K' infers that ga and ni should be brought in concert with 2. each other and also that this should not be attempted in the hexatonic and the pentatonic forms because ga and ni-ga are respectively to be eliminated in them.
- 3. Sadavauduvata is an abstract noun indicating the state of being hexatonic and pentatonic.
- 4. The pentatonic forms can be obtained by the elimination of ga and ni, so in the case of rsabha being the fundamental note, even though there is no question of its consonant being omitted, yet by the authority of muni (Matanga ?), as quoted by 'K', pentatonic forms are not permitted.
- 5. That is, like that of madhyama, i. e. commencing in 1sabha. By etc., is included the caccatputa tala and the viniyoga, i. e. its application in the dhruva song.
- 6. The purport of the song is as under :--

Obeisance to that Siva whose (fifth) face (emerges from) his (four) heads, the Lord of lords, the paralyser of the power of the chief of gods (Indra), the endless, the invincible, lord of Ambika who robs Visnu of the grace of his countenances.

- 7. The anusvara of Haram has been supplied to make the text more intelligible. The Adyar ed. of S. R. reads Haramurdhaja etc.
- Comp. Bh. Bhaşya of Nanyadeva Chap. VI which reads भणमामि पुरुषमहमलङ्कृतिभरं etc. meaning "I bow to the Being
- that bears profuse ornamentation" etc. instead of तं प्रणमामि पुरुषमुखपपासक्मीहरं etc.

Section 7 : Jati-s (Melodic types)										
3.	pā pa	pā ti	dhā ba	n۱	nī hu	nî stam	gā	sā bha		
4.	pā na	mā ma	dhā nan	nĩ	ni-dha <i>tam</i>	pā	pā	pa		
5.	pa pra	pā ņa	rī md	rī	rī mi	rI pu	rï ru	ri şa		
6.	mā. mu	ni-ga <i>kha</i>	sā. pa	sa∙dha <i>dma</i>	nï	nï la	nĩ	n ī kşmī		
7.	sā ha	sā ra	sā mam	mā	pā bi	pā ka	ра	ра pa		
8.	dhā ti	mā ma	dhā je	٦ſ	pā yam	pā	pā	pā		
	••		6.	धैवती	जातिः					
	स्तो	धेवत्यां (रिधावंग	गौ लङ्घ	चावारो	हणौ स	मौ ।।७१	211		
	प्रत्ने	ोपात्षाडवं सादिर्मूच्य	प्रोत्त	फ्नौडवं	सपलोप	तः ।				
	वि	नयोगश्च ।	षाड्जीव	वत्कला ह	ग़दश की	तिताः	ι			
चे	अस्य क्षिकैशिव	ां धैवत्यां हदेशीसिंह	धैवतो ल्यो दृष्	न्यासः । यन्ते । ३	ऋषः प्रस्याः प्र	नमध्यम स्तारः	धैवता व 	अवन्यासाः ।		
	દ્દ.	धैवती								
	۶.	धा धा त रु	निध णा	पध म म		मा मा दु	ī			
	ર.	धा धा म णि	निध भू	निसं स f	ता संति वे ता	सं। सं। म				
	3.	सघ ^ध ल र्षि	ा पा शे रो	मध ध	। निध	धनि जं	धा			
	۲.	सा स		र रिग	सा रिग धि पै	ग सा	सा क			

۲	318		Treatment of Svara
		۲.	धां धां नीं पां धां पां मां मां
			कुंडल विला स
		६.	ધાં ધાં પાં મંઘં ઘાં નિંધં ધંનિ ઘાં
			कुत सो भं
		७.	धा धा निसं निसं निध पा पा पा
			नगसू नुल क्ष्मी
		۹.	रिग सा सा सा नीं नीं नीं नीं
			देहा र्घमि क्षि
		٩.	सा रिग रिग सा नीं सा धां धां
			त श री रं
	۶	۰.	रीं गीरे मंगं मां मां मां मां मां
			प्रणमा मि भूत
	१	१•	नी नी धा धा पा रिंग सा रिंग
			गी तो प हा र
	8	२.	पा धा सा मा धा नो धा धा
			परितु ष्टं
			[]]

[तत्र साकल्येन पदयोजना] [तरुणामलेन्दुमणिभूषितामलशिरोजं भुजगाधिर्पककुण्डलविलासकृतशोभम् । नगसूनुलक्ष्मीदेहार्धमिश्रितशरीरं प्रणमामि भूतगीतोपहारपरितुष्टम् ।।]

(vi) Dhaivatī : (75c-77b)

In dhaivati, rsabha and dhaivata are the two fundamental notes, sadja and pañcama are to be overstepped, while in Section 7 : Jati-s (Melodic types)

ascent¹, hexatone is said to be by the elimination of pañcama and pentatone by that of sadja and pañcama; its mūrcchanā commences with rsabha and its tāla, mārga, gīti and its proper application (viniyoga) are like those of $s\bar{a}dj\bar{i}^2$. It is known to have twelve kalā-s. (75c-77b)

In this dhaivatī, the final note is dhaivata, the semifinal note is dhaivata, ŗşabha and madhyama; and cokşakaišika, dešī and simhalī are seen.

Its prastāra⁸ :

1.	dhā Ta	dhã <i>ru</i>	ni-dha na	pa-dha	mā ma	mā len	mā	mā du
2.	dha <i>ma</i>	dha ņi	ni-dha bhū	ni-sa	sā si	sā ta	sā	sā4 ma
3.	sa-dha <i>la</i>	dhā Si	pā ro	ma-dha	dha	ni-dha	dha-ni <i>jam</i>	dhā
4.	85. bhu	sā ja	ri-ga gð	ri •ga	sā dhi	ri-ga pai	sā	sā ka
5.	dhā <i>kuņ</i>	dhā	ni <i>ḍa</i>	pā la	dhā vi	pā la	mä	mā sa

1. 'K' interprets that sa and pa are to be overstepped in the ascending pattern of tonal movement and draws the implication that, the purport is that, "in the state of completeness they have to be very rare, and thus in descent they (sa and pa) have to be rare and not very rare."

- 2. That is, "tala is threefold pañcapaņi, which is ekakala etc, as respectively set in the citra, vārtika and daksiņa mārga-s and also in māgadhī, sambhāvitā and pīthulā giti-s in due order. Its proper application is known to be in the naişkrāmī dhruvā in the first act."
- 3. The purport of the song is as under :

Obeisance to (the Ardhanārīsvara, Šiva) whose glistening hair is decorated by the pure jewel of the new moon, who appears beautiful by the dangling of the lone ear-ring formed by the king of serpents (Šeşa), whose body is conjoint half and half with the graceful frame of the daughter of the mountain (Pārvatī) and who is delighted by the presentation of songs by (his) devoted creatures.

4. Cf. Kallinātha S. R. vol. I, p. 218 as well as K. R., p. 140 who omit the tāra sign upon all the sa-s of this kalā. Two of the MSS. of S. Raj. agree with this reading (see S. Raj vol. I p. 199 f. n). These signs are given in the text.

3 20			Tre	atment of	Svara			
6.	dhā <i>k</i> ŗ	dha ta	p a So	ma-dha	dhā	ni-dha <i>bham</i>	dh a-ni	dhā
7.	dhā <i>Na</i>	dhā ga	ni-sa sû	ni-sa	ni-dha nu	pā la	pā	pā kşmī
8.	ri•ga <i>de</i>	sã ha	sā	SÄ	nî rdha	nî mi	٦Ĩ	nt Sri
9.	sā ta	ri•ga <i>\$a</i>	ri-ga 1	sā	nî	sā	dhā ram	dhā
10.	ri pra	ga-ri <i>ņa</i>	ma-ga ma	mä	mā mi	mä bhū	mā	mā Ia
11.	nî gi	nī	dhā <i>to</i>	dhā	pā pa	ri-ga ha	sā	ri-ga <i>ra</i>
12.	pā pa	dha ri	sā Iu	mā	dhā	nī	dhā s!am	dhā
			7	नैषारी उ	गनिः			

7. नैषादी जातिः

नैषाद्यां निरिगा अंशा अनंशाबहुलाः स्मृताः ॥७७॥ षाडवौडुवलङ्घ्याः स्युः पूर्वावद्विनियोजनम् । चच्चत्पुटः षोडशात्र कला गादिश्च मूर्च्छना ॥७६॥ अस्यां नैषाद्यां निषादो न्यासः । अंशा एवापन्यासाः । चोक्ष-साधारितदेशीवेलावल्यो दृश्यन्ते । अस्याः प्रस्तारः---

७. नैषावी १. नो नो नो नो संा धा नो नो तं सु र वं दि त २. पा मा सा धां नों नों नों नों म हि ष म हा सु र ३. सा सागा गा नी नो धा नी म थ न मुमा प तिं ४. संा संा धा नी नी नी नो नो भो ग यु तं

		See	ction	7: 3	ati-s	(Mel	odîc	types)
¥.	सा	सा	गा ग	मा व	मां य	मां ः	मां ः	मां
	न	ग	सु	त	का	4	मि	नी
૬.	नीं	पां	धां ।	गं भ	मां ग	मां ग	मां ग	नां
•	दि		व्य	वि	श	1	ষ '	क
७.	री	गंग	संग	संा	री'	गं।	नी	नी
•••	सू		च					ৰ
द .		नी	पा	धनि	नी	नी	नी	नी
	द	.44	ń.					
				-	111	ШĨ	मा	मा
९.	सा अ		गा मु					
१०.			मां					
			ড্ডব		•		g	र
११.	धा	धा	नी				मां	मां
	बा	ल		મુ	জ	ग		म
શર.	मां	मां	पां	धां	नीं	नीं	नीं	नीं
•	र	व	क	लि	1	तं		
શ્ર.	पां	i qi	नीं	नीं	री	री	री	री
240	द्र		म					मि
	-		मा				सा	सा
१४.	ৰ হা				नि			त
		-					चो	ची
१४.			। री न				न्।	मा क
	प			यु				
१६.			ा री			े ना	ंना	ना
	ন 21	r ta	र ला		सं			

[तत्र साकल्येन पदयोखना]

[तं सुरवन्दितमहिषमहाऽसुरमथनमुमार्पति भोगयुतं नगसुतकामिनोदिव्यविशेषकसूचकशुभनखदर्पणकम् । अहिमुखमणिखचितोज्ज्वलनूपुरबालभुजंगमरवकलितं दूतमभिव्रजामि शरणमनिन्दितपादयुगपङ्कजविलासम् ।।७।।]

(vii) Naişādī : (77c-78)

In naişādī, the fundamental notes are nişāda, rṣabha and gāndhāra and the rest of the notes (lit. non-fundamental notes) are known (in it) to be weak¹ (lit. not profuse). The hexatone, the pentatone and the notes to be overstepped are like in the previous one², as also its proper application. (The tāla) is caccatpuța; it has sixteen kalā-s and its mārcchanā begins with gāndhāra. (77c-78)

In this naişādī³, the final note is nişāda, the very fundamental notes are the semifinal notes and cokşasādhārita, desī and velāvalī are seen.

1. The expression "anamisabahula" of the text is interpreted in two different ways by the two commentators. "S' reads it as "anamisa+bahula" which means the non-fundamental notes, viz. sa, ma, μa and dha are profuse. But 'K' points out that this reading is in contradiction with the statement of Matanga —"in the state of completeness sa, ma, μa and dha are weak, in the hexatones sa, ma and dha are weak and in the pentatones ma and dha are weak" and also author's own statement—"the non-fundamental notes are not to be repeated." He therefore reads it as "anamisa+abahula" which has been adopted in this translation. Both the readings are grammatically possible, but the latter seems to be technically more appropriate.

2. That is, the hexatone is by the elimination of pañcama, the pentatone by that of salja and pañcama, sa and pa are the notes to be overstepped in the ascending movement; and its proper application is like that of salji, i.e. in the naiskrāmiki dhruvā of the first act.

3. Naisadt is the last of the seven Suddha jati-s described here. Their actual formation in practice has been demonstrated in so far as the arrangement of notes in different kala-s set to a definite time-measure in a particular tala etc. has been indicated. Their modified forms are not similarly illustrated but may be worked out on this pattern.

		Sect	ion 7 : (Jati-s (N)	lelodic	types)		· 32	
Its pr	rastāra ⁴ :								
1.	nt <i>Tam</i>	ηI	nī su	nî <i>Ta</i>	sā van	dhā	nī di	nî tam ⁵	
2.	pā ma	ma hi	sā. şa	dhā <i>ma</i>	nî ha	nî	nI su	nî 7a	
3.	sā ma	sā tha	gā na	gā mu	ni ma	nI	dha pa	nî tim	
4.	sā bho	sā	dhā ga	nî Ju	nI tam	nî	nĭ	nſ	
5.	sā na	sā ga	gā su	gជ 1a	mā ka	mā	mā mi	mā ni	
6.	nî di	pā	dhā 1994	pā vi	mā še	mā	mä \$a	mā ka	
7.	ri sü	gā	sā ca	sa ka	rí śu	ga bha	nī na	nî kha	
8.	nI da	ní	pä r p a	dha-ni ṇa	ní kam	nî	nt	цí	
9.	sä A	sā hi	gā mu	sā k ha	mä ma	mä yi	mā kha	ınā ci	
10.	mā to	mā	mā jjva	inā Ia	กรี กนิ	dhā	m a pu	mā ra	

4. The purport of the song is as under :

I hasten to take shelter in Him, who is adored by the gods, who vanquished the great demon Mahişa, who is the lord of Uma, who is associated with serpents*, who reflects in the mirror of his auspicious nails, the special mark of extraordinary excellence (*tilaka*) borne by the most beautiful maiden, the daughter of the mountain (Parvati), who puts on the young serpents that by their hissing sound like the anklets (as it were) shining with inlaid jewels (extracted) from the mouths of snakes, and who is endowed with the grace of the praiseworthy lotus feet.

 Comp. S. Raj (Vol. I, p. 201) which reads उमापरिभागयुत meaning "associated with the enjoyment of Uma's company" instead of उमापति भोगयुत of the Adyar ed. of S. R.

5. The anusvara is supplied editorially to make an intelligible reading of the text which as per the Adyar ed. of S. R. reads as :

तं सुरवन्द्रितमहिषमधा ऽसुरमथनमुमापति भोगयुतं etc.

24			Treato	nent of	Svara			
1.	dha	dhā	ារ	nt	rI	gā	må	mä
_	ba	la		bhu	ja	nga 🛛		ma
2.	mä	mā	pä ka	dhā <i>li</i>	nI	nI <i>tam</i>	nI	nî
	ra	Da						
3.	pā dru	pā ta	nI ma	nI bhi	rí <i>Dra</i>	rī jā	rI	rI mi
14.	ri	mā	mā	mä	rĭ	gā	sā	55
30	ša	ra	ņa	ma	nin	ga	di	la
5.	dhā	mā	rĩ	gā	51	dhā	nĭ	nî
	<u>þ</u> a		da	уц	ga	pan		ka
6.	pā	mā	rĩ	għ	٨ĭ	nī	nī	nī
	ja	vi	la	sam				
3	પ્રશાક જ્ય	• 49414						
द द सपन्या	ासाः । १	ाध्यमे ः षोडश तां ध्रुव ड्जर्कशि मागुक्ताः	ाल्परवं ास्यां कः ग्यां स्य क्यां ग	धनिषाः लाः स्यु गत्प्रेक्षणे गन्धारो	रौ म र्जिनियं नु ढि न्यासः	नाग्बहू ोजनम् । तीयके । । षड्	।।७९।। । ।। ८० ।। र्जनिषा	दपञ्चम। दुश्यन्ते ।
न ऽ अपन्या अस्याः	ऋषमे म वच्चत्पुटः प्रावेशिक्य अस्यां ष साः । ! : प्रस्तारः	ाध्यमे श षोडश ता ध्रुव ड्जकैशि मागुक्ता	ज्ल्पत्वं ास्यां कः ग्यां स्य क्यां ग गान्धारप	धनिषाः लाः स्यु गत्प्रेक्षणे गन्धारो	रौ म र्जिनियं नु ढि न्यासः	नाग्बहू ोजनम् । तीयके । । षड्	।।७९।। । ।। ८० ।। र्जनिषा	
द द अपन्या अस्याः	ऋषमे म वच्चत्पुटः प्रावेशिक्य अस्यां ष स्ताः । ! प्रस्तारः द. षड्	ाध्यमे ९ षोडश तां ध्रुव ड्जकैशि मागुक्ता	ज्ल्पत्वं ास्यां कः ग्यां स्य वयां ग गान्धारप्	धनिषाः लाः स्यु गत्प्रेक्षणे गन्धारो ।ञ्चमहि	रौ म र्जिनियं नु ढि न्यासः	नाग्बह ोजनम् । तीयके । । षड्	।।७९।। । ।। ८० ।। र्जनिषा	
द उ अपन्या अस्याः	ऋषमे ग वच्चत्पुटः प्रावेशिक्य अस्यां ष सराः । प्रस्तारः द. षड् १. सा	ाध्यमे श ते षोडश ता ध्रुव ड्जकैशि सागुक्ता जकैशिक सा मां	ज्ल्पत्वं ास्यां कः ग्यां स्य वयां ग गान्धारप्	धनिषाव लाः स्यु गत्प्रेक्षणे गन्धारो ग्ञिचमहि	ही म र्जिनियं नु दि न्यासः ज्यासः ज्योलव	नाग्बह ोजनम् । तीयके । । षड् उदेशीवेल	।।७९।। । ।। ८० ।। र्जनिषा	
द उ अपन्या अस्याः	ऋषमे म वच्चत्पुटः प्रावेशिक्य अस्यां ष स्रस्तारः इ. षड् १. सा दे २. मा वं	ाध्यमे श ते षोडश ता ध्रुव ड्जकैशि सागुक्ता जकैशिक सा मां	ज्ल्पत्वं ास्यां कः ग्यां स्य वयां ग गान्धारप ो पां गा मा	धनिषाव लाः स्यु गत्प्रेक्षणे गन्धारो ग्ञिमहि गरि म सां सां	ही म र्जिनियं नु दि न्यासः ज्यासः ज्योलव	नाग्बह ोजनम् तीयके । षड् उदेशीवेल सां	।।७९।। । ।। ८० ।। र्जनिषा	
द उ अपन्या अस्याः	ऋषमे म वच्चत्पुटः प्रावेशिक्य अस्यां ष सराः । प्रस्तारः द. षड् १. सा दे २. मा वं	ाध्यमे श बोडश तां ध्रुव ड्जर्कशि सागुक्ता जर्कशिक सामां माम	ज्ल्पत्वं ास्यां कः ग्यां स्य वयां ग गान्धारप् ो पां गा मा ग मा	धनिषाः लाः स्यु गत्प्रेक्षणे ग्वि म श्चिमहि यरि म सां सां	ही म र्जिनियं नु दि न्यासः न्योलव सां	नाग्बहू ोजनम् । तीयके । । षड् व्देशीवेल सां	।।७९।। । ।। ८० ।। र्जनिषा	
र द अपन्या अस्याः	ऋषमे ग वच्चत्पुटः प्रावेशिक्य अस्यां ष सराः । सराः । स्रस्तारः इ. षड् २. सा दे २. मा व ३. धा	ाध्यमे ९ बोडश तां ध्रुव ड्जर्कशि बर्जर्कशि नागुक्ता जर्कशिक सा मां मा म मा म सा क	ज्ल्पत्वं ास्यां कः ग्यां स्य वयां ग गान्धारप् ो पां गा मा ग मा	धनिषाय लाः स्यु गत्प्रेक्षणे ान्धारो ाञ्चमहि गरि म सां सां सां धा श शि	ही म र्जिनियं नु द्वि न्यासः न्वोलव सां सां रो (ति द	नाग्बहू ोजनम् । तीयके । । षड् व्देशीवेल मा सां रेम	।।७९।। । ।। ८० ।। र्जनिषा	

.

	Section 7 : Jati-s (Melodic types)
Χ.	घा घा पा घनि मा मा पा पा द्वि _, र द ग ति
Ę.	धा घा पा घनि घा घा पा पा नि पु ण म तिं
७.	सा सा सा सा सा सा मुग्ध मुखां बु
۲.	धाधापाधाधनि घाधाघा रुहदिब्यकांति
९.	सा सा सा रिंग सा रिंग धा धा हरमं बुदो द
१०.	धिनिना.दं
११.	री रीगासासां सां गां अर चलवर सूनु
•	धां रिंसं रों संरिं रों सां सां सां दे हा र्धमि श्रि
१३.	सा सरि रो सरि रो सा सा सा त श रो रं
१४.	मामामामानिष पध मामा प्रणमा मितम हं
૧૪.	नी नी पा पम पा पम पध रिंग अ नु प म मु ख क म
१६.	गा गा गा गा गा गा गा गा लं

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[तत्र साकल्येन पदयोजना] [देवमसकलशशितिलकं द्विरदगति निपुणर्मति मुग्धमुखाम्बुरुहदिव्यकान्तिम् । हरमम्बुदोदधिनिनादमचलवरसूनुदेहार्धमिश्रितशरीरं प्रणमामि तमहमनुपममुखकमलम् ।।]

(viii) *Sadjakaisikī* : (79 80)

In şadjakaiśiki¹ the fundamental notes would be şadja, gāndhāra and pañcama; rṣabha and madhyama (will be) rare³ and dhaivata and niṣāda somewhat⁸ profuse. Caccatpuța will be the tāla and there will be sixteen kalā-s in it; its proper application will be in the prāvešiki dhruvā (song in the second act). (79-80)

In this sadja-kaisikī, gāndhāra is the final note, sadja, nisāda and paācama are the semifinal notes and gāndhāra-paācama, hiņdolaka, deśī, velāvalī, mentioned before, are scen.

Its prastāra⁴:

	sā De	5 ā	mā	pā	ga-ri	ma-ga	mā	mā
2.	mā vam	mā	mā	mā	5 ā	5 ā	sā	sā

- 1. Şadja-kaišiki is the first among the associate modified (vikita samsargaja) jatis which the author is now going to describe.
- 2. Sa, ga, pa being the fundamental notes, ri, ma, dha, ni have to be weak, but of these ri and ma are provided to be rare.
- 3. Of the non-fundamental notes, viz. ri, ma, dha and ni, ri and ma are declared to be rare and therefore as compared to them dha ni are profuse, but as compared to the fundamental notes they are at the same time weak and therefore relatively they are said to be somewhat profuse.
- 4. The purport of the song is as under :

Obeisance to that Hara (Siva) who is the God that bears the imperfect moon as the *tilaka* mark, who has the gait of an elephant, who is of a sharp intellect, whose innocent lotus face is radiant with extraordinary lustre, who (in his speech) sounds like the clouds and the ocean•, whose body is conjoint with the frame of the daughter of the mountain (Psrvat1) and who bears the matchless lotus face.

• Comp. S. Raj, Vol. I, p. 204 which reads অমৃত্যাৰ্থি meaning "the ocean of nectar" instead of অম্যুবাৰ্থি of S. R.

			Section	7 : Jati	s (Meloi	lic types)		527
3.	dhā a	dhā sa	pä ka	pā la	dha Sa	dha Si		ri-ma la
4.	rî kam	rſ	nĩ	ni	ni	nî	nI	nî
5.	dhā dvi	dhā ra	pā da	dha•ni ga	mā tim	má	ра	pā
6.	dha ni	dhā pu	pä ņa	dha-ni <i>ma</i>	dha tim	dha	pā	pā
7.	sā mu	sā	sä <i>gdha</i>	52	sā m u	sā khām	sā	sā bu
8.	dhā <i>ru</i>	dhā <i>ha</i>	pā di	dhā	dha-ni <i>vya</i>	dha kan	dha	dhā tim
9.	sā Ha	sā ra	sā mam	ri∙ga	sā bu	ri-ga do	dhā	dha da
10.	mā dhi	dhā ni	р а na	pā	dhā dam	dhā	ាវ	nī
11.	rī a	ri ca	ga la	sá va	sā 14	5â 5û	sā	ga nu
12.	dhā de	ri-sa	rI ha	sa-ri	rī rdha	sā mi	sā	sā Sri
13.	8ā ta	sa-ri Sa	rī ri	sa-rī	rí ram	sā	sā	52
14.	mā pra	mā ņa	mā mā	mā	ni-dha mi	pa-dh a tama	mā ham	mā
15.	ni a	nI nu	ра <i>ра</i>	pa-ina ma	pā mu	pa-ma <i>kha</i>	pa-dha <i>ka</i>	ri•ga ma
16.	gā Iam	gā	gā	gå	gā	gā	g1 .	gā

9. षड्जोदीच्यवा जातिः अंशाः समनिधाः षड्जोदीच्यवायां प्रकीर्तिताः । मिथश्च संगतास्ते स्युर्मन्द्रगान्धारभूरिता ॥८१।। षड्जर्षभौ सूरितारौ रिलोपात्षाडवं मतम् । औडुवं रिपलोपेन धंवते ऽंशे न षाडवम् ।।८२।।

•

षाड्जीवद्गीतितालादि गान्धाराविश्च मूर्च्छना । द्वितीये प्रेक्षणे गाने ध्रुवायां विनियोजनम् ॥६३॥

अस्यां षड्जोदीच्यवायां मध्यमो न्यासः । षड्जघैवतावपन्यासौ । अस्याः प्रस्तारः—

٩.	•	जोदी	व्यवा		,				
१.	सा शै	सा	सा	सा	मां ले	मां	गां	गां	
२.	गा श	मा	पा सू	मा	गा	मा	मा	धा नु	
२.	सा श्र	सा	मा ले			पा सू	नी	धा नु	
۲.	धा प्र	नी ण				नी	पा		
۲.	गां स	सा वि	सा ला	सा		सा	सा	गां ल	
Ę.	धा		पा	धा			धा वं		
19.		गां		गां		गां		सा	
ፍ.	नी		पा			धा			
S.	मु सं। अ		ना ग				नी भ		
१०.	धा ः		तं स	ញ់ ។	धाः	नी प	गा ≀	ड ना मि	

११. गांसा सा सा सा सा गां देवा सुरे श १२. घा घा पा घा मा मां मां मां त व रुचिरं

शैलेऽक्षराभ्यां प्रथमा द्वितीया तु शसूनुना । तैः पञ्चभिस्तृतीया स्यात्सप्तमी त्वधिकाक्षरैः ।। ५४।। मुखेन्दुना ऽष्टमी त्वस्यां षड्भिस्तैर्नवमी कला ।

[तत्र साकल्येन पदयोजना]

[शैलेशसूनुप्रणयप्रसङ्गसविलासखेलनविनोदम् । अधिकमुखेन्दुनयनं नमामि देवासुरेश तव रुचिरम् ।।]

(ix) *Şadjodicyavā* : (81-85b)

In sadjodicyavā the fundamental notes are said to be sadja, madhyama, nisāda and dhaivata which are mutually in concert with each other; there is a profusion of the low gāndhāra¹ and high sadja and rsabha²; the hexatone is accepted to be (caused) by the elimination of rsabha, and the pentatone by that of rsabha and paācama; no hexatone is (possible) with dhaivata as the fundamental note⁸, the giti⁴ and tāla etc. are

- 1. Even though gandhara is not a fundamental note in sadjodleyava yet it is profuse in the lower register as laid down by Bharata who says: "Sadja, *fsabha* and gandhara have to be strong" (cf. N. S, G. O. S. Ed. XXVIII 109 p. 57).
- 2. Sadja and *tşabha* are profuse in the higher register; for, as observed by 'K', *tşabha* is the maker of the hexatone and the pentatone, and therefore in the state of completeness, it is rare along with *pañcama* according to Matanga (as quoted by him). Thus the statement of Matanga is valid, according to 'K', with regard to the low and the middle registers, and that of Bharata (quoted in 1 above) with regard to the high register. *Sada* is one of the fundamental notes and is naturally profuse, but the provision with regard to its profusion in the higher register shows that it is comparatively more profuse there, than in the other two places.
- 3. Because rsabha, being its consonant, cannot be eliminated.
- 4. The Adyar ed. of S. R. reads gita, which has been changed here to giti, as for example is the case in the following sadjamadhyama. Moreover, dhruva-gana is mentioned separately in

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like those of sādjī, its mūrcchanā commences with gāndhāra, and its proper application is in the dhruvā song of the second act. (81-83)

In this sadjodicyava, madhyama is the final note, and sadja and dhaivata are the semifinal notes.

Its prastāra⁵ :

1.	sā Šai	sä	5ā	sā	mā le	mā	ga	ga
2.	gā sa	ma	pā sū	mā	gā	mā	mā	dhā nu
3.	sā Sai	5 A	mā le	gā	pā ša	pā sū	nI	dha nu
4.	dhā pra	nî ņa	sā ya	sā	dhā <i>pra</i>	nî san	pā	mā ga
5.	gå sa	8ā vi	sā la	sā	sā sa	sā khe	sā	gā la
	dhā na	dha vi	pā no	dhā	pā	ni	dhā dam	dha
7.	sā A	gā	gā dhi	gā	gā ka	gā	sā	5 2
8.	nI mu	dh£	pā khen	dhā	pā	dha	dhā	dha du
9.	8ā 4	sā dhi	mā ka	gā	pā mu	pā khen	nî	dha du
10.	dhā 76	nî Ja	sā nam	sā	dhā na	ni ma	pā	mā mi
11.	gā de	1ā	5ā 72	s ā	8ā 5U	5ā 70	5 ā	gā sa'
12.	dhā ta	dhä oa	ра <i>ти</i>	dhā ci	mā ram	mā	mä	mä

なるのないとないないないで、「ないないない」というかないという

this same verse. The reading gtti is surely more significant in this context. The interpretation of 'S' also supports this view.

5. The purport of the song is as under :

O I the lord of the gods as well as the demons, I bow down to that beautiful extra (third) eye of your moonlike face which is the means of amusement in the midst of the graceful love-sports of the daughter of the mountain (Parvati). The first kalā is (sung) by the two syllables sai and le and the second by (the three) sa, sā and nu, while the third is by these five. Similarly, the seventh is (sung) by (the three) syllables a, dhi and ka and the eighth by (the three) mu, khen and du, while the ninth kalā is (sung) by these six together. (84-85b)

SECTION . . Jan . .

It will be observed that certain portions of the text of the song, in the above kala-s are repeated. Here the pattern of repetition is elucidated.

The text of the first two kala-s is repeated in the third and that of the seventh and the eighth kala-s is repeated in the ninth kala.

The author has given specific instructions regarding the distribution of the syllables of the song among the kala-s in this particular case only, in view of the repeated portions.

10. षड्जमध्यमा जातिः

अंशाः सप्त स्वराः षड्जमध्यमायां मिथश्च ते ।।८४॥ संगच्छन्ते निरल्पो ऽंशाद्गादृते वादितां विना । निलोपनिगलोपाम्यां षाडवौडुविते मते ।।८६॥ षाडवौडुवयोः स्यातां द्विश्रुती तु विरोधिनौ । गीतितालकलाऽऽदीनि षाड्जीवन्मूर्च्छना पुनः ।।८७।।

मध्यमादिरिह ज्ञेया पूर्वावद्विनियोजनम् ।

अस्यां षड्जमध्यमायां षड्जमध्यमौ न्यासौ । सप्त स्वरा अपन्यासाः । अस्याः प्रस्तारः----

१०.	षड्	जमध	यमा					
१.	मा	गा	सग	पा	धष	मा	निध	निम
	र	জ	नि	व	धू		मु	स
२.	मा	मंा	संा	रिंग	मंग	निध	षध	पा
	वि	ला		स	लो			च

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२ .	, मागारी गामामासासा नं
¥.	मा मगम मा मा निघ पध पम गमम प्र वि क सि त कु मु द
¥.	
Ę.	निध सा री मगम मा मा मा मा भं
૭.	मां मां मंगंमं मंधं धंपं पंधं पंमं गंमंगं का मि ज न न य न
۲.	
٩.	मा मा धनि धस धप मप पा पा नं
१०.	मां मंगंमं मां निधं पंधं पंमंगं गां मां प्र ण मा मि दे वं
११.	धा पध परि रिग मग रिग सघस सा कु मु दा घि वा सि
१२	निध सा री मगम मा मा मा मा नं
	[तत्र साकल्येन पदयोजना]
	[रजनिवधूमुखविलासलोचनं
	प्रविकसितकुमुददलफेनसंनिभम् ।
	कामिजननयनहृृ्वयाभिनन्दिनं
	प्रणमामि देवं कुमुदाधिवासिनम् ।।}

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٢,

(x) Şad ja-madhyamā : (85c-88b)

In sadja-madhyamā, (all) the seven notes are the fundamental notes which move in concert with each other, nisāda is rare³ except when gāndhāra is the fundamental note⁸ or when it (nisāda) is the sonant⁸; the hexatone and the pentatone are accepted to be (caused) by the respective elimination of nisāda, and nisāda and gāndhāra; both these (ni and ga) are adverse⁴ to the hexatonic and pentatonic formations; gīti, tāla, kalā, etc. are like those of sādjī; its mūrcchanā is known to commence with madhyama, while its proper application is like that of the previous one.⁵ (85c-88b)

In this sadja-madhyamā, sadja and madhyama are the final notes, and (all) the seven notes are semifinal notes. Its prastāra⁶:

1.		••		pā va	dh a- pa <i>dhū</i>	mā	ni-dha <i>mu</i>	ni-ma <i>kha</i>
2.	mā vi	mā Ia	รลี	ri-ga sa	ma-ga lo	ni-dha	pa-dha	pā ca

1. Nişada is rare in the state of completeness.

2. Even in the state of completeness, if gandhara is the fundamental note, then the rarity of ni fada which is its consonant is not desirable.

3. When, however, nigāda is the vādā (sonant) it cannot at all be rare.

- 4. The two bi-srutic notes (dvisruti of the text), gandhara and nişāda are not conducive to hexatonic and pentatonic formations when they are the fundamental notes, as observed by 'K' because of the very fact that they are formed by the elimination of the nişāda and gandhāra, and also because the same note cannot be the fundamental note as well as the note to be eliminated. Thus, the purport is that while ga and ni are the fundamental notes, there are no hexatonic and pentatonic forms. However according to the interpretation of 'S', in the case of hexatonic and pentatonic forms taking place, ni and ga are dissonant (vivādt).
- 5. That is, sadjodicyava.

£.

6. The purport of the song is as under :

Obeisance to Lord, the presiding spirit of the white waterlily (i. e. the moon) which is, as it were, the graceful eye of the bridal face of the night, (shining) like the froth (collected) upon the petals of the white water-lily in full bloom and which is pleasing to the heart and the looks of the lovers.

3 34			Ţ	reatmen	t of Svai	ra*		
3.	mä nam	gā	rI	gā	mā	mā	83	Sā
4.	щã	ma-ga-m	a mā	mā n	i-dha	pa-dha	pa•ma g	ga-ma-ma
·	_ pra	Di	ka	si	ta	ku	ти	da
5.	dhā	pa-dha	pa-ri	ri-ga	ma-ga	ri-ga sa	-dha-sa	sā
	da	la	phe	na	sain			ni
6.	ni-dha bhan		rî n	na-ga-ma	mā	mä	mä	mä
7.	mā	mā m	a-ga-ma	n ma-dha	u dha-pa	pa-dha	pa-ma	ga-ma-ga
	Ka		mi	ja	na	na	ya	na
8.	dhā	pa-dha	pa•ri	ri-ga	ma-ga	ri•ga s	a-dha-sa	sā
	hţ	da	уа	bhi	nan	_		di
9.	mā nam	mā (lha-ni	dha-sa	dha•pa	m a- ma	pä	pā
10.	mā	ma-g a-m	a mā	ni-dha	pa-dha	pa-ma-ga	n gā	ma
	pra	ņa		ma	mi	de	vam	
11.	dha	pa-dha	p a-ri	ri-ga	ma•ga	ri-ga	sa-dha-s	a sā
	ku	mu	da	dhi	øð			si
12.	ni-dh nam	a sā	r I 1	ma-ga-ma	า เกล	mā	mä	mä
			11. •	गन्धारो	दीच्यव	। जातिः		
	गान्ध	वारोदोच्य	वायां	तु द्वाव	ांशी षड्	जमध्यमौ	115511	
	रिल	ोपात्षाडव	त्रं ज्ञेय	ां पूर्णत	वे ऽंशे	तराल्पता	1	
				••		कीतिताः		
	रिध	योः सं	गतिज्ञेंय	ा धैवत	तादिश्च	मूर्च्छना	1	
	ताल	শ্বি ন্দ্বন্দুর	रो ज्ञेयः	कलाः	षोडंश	कोतिताः	119011	

विनियोगो ध्रुवागाने चतुर्थप्रेक्षणे मतः ।

पन्यासो । अस्याः प्रस्तारः---

अस्यां गान्धारोदोच्यवायां मध्यमो न्यासः । षड्जधैवताव-

सौ धा पा मा मा सा सा सा सा 2. म्प ३. धानी सा सा मा मा पा पा री गौ मु खां ਭੁ ४. नी नी नी नी नी नी नी नी रुह दि व्यतिल क ४. मा मा धा निस नी नी नी नी प रि चुं নি बि ता ६. मा पा मा परिंग गा गा सा सा दं त सु पा गा मग वा पध मा धनि वा वा 9. प्र वि क सि त हे म प. री गा सा सध नो नो धा धा कमलनि भं ९. गा रिग सा सनि गा रिग सा सा अति रुचिर कां ति १०. सा सा सा मा मनि धनि नो नो Ý গা स व म न ११. मां पा मां पंरिंग गा गा सा सा ल नि के त्तं १२. गां सा गां सा मां पा मा परिंग म न सि ज श री र

Section / : Jusses (machines

१. सा सा पा मा पाधव पा मा

११. गान्धारोवीच्यवा

Section 7 : Jati-s (Melodic types)

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In this gandharodicyava the final note is madhyama, and sadja and dhalvata are the semifinal notes.

Its prastāra⁴ :

•								
1.	sā sau	s ā	pā	mã	ра	dh a•pa	pā	mā
2.	dhā <i>mja</i>	pă	mā	mā	sä	s ā	5 ā	5 ā
3.	dha	nĭ	sā	sā	mā	mā	pā	pā
	gau		ri		mu	khām		bu
4.	nī	nï		٦î	nI	nĭ	nī	nī
	ru	ha	di		vya	ti	la	ka
5.	mā	mā	dhā	ni-sa	nî	n i	nI	nī
	pa	ri	cum		bi	1a		rci
6.	mā	pā	mā	pa-ri-ga	gä	gā	sā	sā
1	la	su	pa		dam			
7.	-	ma-ga		pa-dha			pā	pā
	pra	vi		si		he		ma
8,		gā		sa-dha		nī	dh a	dhā
	ka	ma	la	ni				
9.	gā	-		sa-ni	-	-	sā	sā
	A	ti	ru	ci	ta	kan		ti
10.	sā	sā	5ā	mä	ma-ni	dha-ni	nI	nī
	na	kha	da		rpa	ùg		ma
11.	mã	pā	mā	pa-ri ⁵ -ga	gā	ga	sā	sā
	la	ni	ke		lam			
12.	gā	sä	gā	sā	៣ធី	pā	mä	pa-ri-ga
	ma	na	si	ja	śa	r I	t a	

4. The purport of the song is as under :

Obeisance to the auspicious feet (of Siva) that are worshipped as they are kissed by the divine *tilaka* mark on the gentle lotus face of Gaurf and that (caused) the destruction of the mind-born (cupid); and also to the two matchless feet of Gaurf that are (resplendent) like the golden lotus in full bloom, that are the abode of pristine purity of the mirrornails that reflect fascinating lustre.

5. Ad. ed. of S. R. reads pa-ri-ga, but ri has been marked tara (high) on the basis of 'K' and K. R. for it seems their interpretation is technically sound.

22

							•
१३.	गं। ता	गंा	सं। ड		गंा	गं।	संग
१४.				नी ['] मि			
१५.				र्धा ग			
१६.			-	मंा		_	

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[तत्र साकल्येन पदयोजना]

Treatment of Syara

[सौम्यगौरीमुखाम्बुरुहदिव्यतिलकपरिचुम्बिताचितसुपादं प्रविकसितहेमकमलनिभम् । अतिरुचिरकान्तिनखदर्पणामलनिकेतं

मनसिजशरीरताडनं प्रणमामि गौरीचरणयूगमनूपमम् ।।]

(xi) Gandhārodīcyavā : (88c-91b)

In gāndhārodīcyavā, however, there are only two fundamental notes, viz. sadja and madhyama; the hexatone is (caused) by the elimination of rsabha and in the state of completeness the notes other than¹ the fundamental notes are rare, while in the case of hexatone nisāda, dhaivata, paācama and gāndhāra are said to be rare;² rsabha and dhaivata may be comprehended to be in concert,⁸ (and its) mūrcchanā commences with dhaivata; the tāla is known to be caccatpuța and the kalā-s are said to be sixteen; its proper application is accepted to be in the dhruvā song of the fourth act. (88c-91b)

- 1. Amsetara, i. e. other than the fundamental notes, viz. other than sa and ma, i. e., ri, ga, pa, dha, ni—these are said to be rare in the state of completeness.
- 2. In the hexatonic forms only *ni*, *dha*, *pa* and *ga* are said to be rare, because *ri* is eliminated. No pentatonic forms are possible here as ordained by Bharata. (cf. N. S. Bom. Ed. p. 450).
- 3. This applies to the state of completeness only, for ri is eliminated in the hexatonic forms.

338			1	Freatme	nt of Sva	ira		
13.	gā ta	រោង	ga	sā da	gā nam	gā	gā	5 ā
14.	nî pra	nî şa	р а <i>т</i> а	dhā	nI mi	gā gau	gā	gā ri
15.	nï ca	nî ra	dha ņa	ра уч	dhā ga	pā ma	m ā nu	ря pa
16.	dha mam	pā	รลี	ธล	mā	mā	mā	mā

12. रक्तगान्धारी जातिः

अंशाः स्यू रक्तगान्धार्यां पञ्च धर्षभर्वाजताः ॥९१॥ रिमतिक्रम्य सगयोः कार्ये संनिधिमेलने । रिलोपरिधलोपाभ्यां थाडवौडुवमिष्यते ॥९२॥ बहुत्वं निधयोरंशः पञ्चमो द्वेष्टि फाडवम् । द्विषन्त्यौडुवितं षड्जनिमपाः संगतौ सगौ ॥९३॥ पञ्चपाण्यादि धाड्जीवदृषभादिस्तु मूर्च्छना । तृतोयप्रेक्षणगतध्रुवायां विनियोजनम् ॥९४॥ अस्यां रक्तगान्धार्यां गान्धारो न्यासः । मध्यमोऽपन्यासः । अस्याः प्रस्तारः---

१२. रक्तगान्धारी

• -									
१.	पा	नी	सा	सा	गा	सा	पा	नी	
	तं		ৰা		ल	र	ज	िनि	
२.	संा	संा	पा	पा	मा	मा	गा	गा	
	म	र	ति	ल	क	भू		ष	
३.	मा	पा	धा	पा	मा	पा	धप	मग	
	ण	वि	भू						
8.	मा	मा	मा	मा	मा	मा	मा	मा	
	ति								

ኢ.	र्धा नीं पां मंपं धां नीं पां पां ०
۴.	मां पां मां घंनि पां पां पां पां ॰
७,	रीगामापापापामापा प्रणमा मिगौ री
5.	री गां मां पां पां पां मां पा
۶.	व द ना र वि पापापापाशापापापा द
१०.	री गा सा सा री गा गा गा प्री ति क रं
११.	
१२.	
	[तत्र साकल्येन पदयोजना]
	-
	[तं बालरजनिकरतिलकभूषणविभूतिम् ।

प्रणमामि गौरीवदनारविन्दप्रीतिकरम् ॥]

(xii) Rakta-gāndhārī: (91c-94)

In rakta-gändhäri, the fundamental notes are five, i. e. (the notes) other than dhaivata and rsabha¹; sadja and gändhāra should be brought into close contact (sannidhi) and in coordination (melana) with the other notes excepting rsabha⁹; the

1. That is, sa, ga, ma, pa and ni.

^{2.} Here the author is talking of two different relationships of sadja and gandhara, viz. sannidhi and melana. 'K' defines the former as the continuity of the two notes of different laghu-kala (i. e. duration of time in terms of laghu-s) and the latter as the continuity of two or three notes of identical laghu-kala. The purport is that these relations should be effected.

hexatone and the pentatone are formed by the respective elimination of rsabha, and rsabha and dhaivata; nisāda and dhaivata are profuse³ and pañcama as the fundamental note does not admit the hexatone⁴, while sadja, nisāda, madhyama and pañcama (as fundamental notes) are not conducive to pentatonic formation⁵; sad ja and gāndhāra are in concert with each other⁶; the pañcapāņi etc. are like those of sādjī and the mūrechanā commences with rsabha; its proper application is in the dhruvā (song) of the third act. (91c-94)

In this rakta-gāndhārī, gāndhāra is the final note and madhyama is the semifinal note. Its prastāra^{*}:

1.	pă Tam	n¶	sā ba	sä	gā la	sā. ra		nī nl
2.	sā ka	să 14	pā ti		mā ka	mä bhü	gä	ga 1a

- 3. Nişāda and dhaivata are profuse. 'K' comments on this statement as follows. Nişāda is a fundamental note and, as such, is naturally profuse, and yet if any specific mention is made about it, obviously it has been done to indicate that it is very profuse, i. e. more than can otherwise be expected in case of a fundamental note. Again dhaivata is the maker of the pentatonic form, and as such its profusion is out of question in the pentatonic forms, while in the hexatonic and complete forms as well it must ordinarily be weak. So its profusion is ordained as an exception by Bharata: "Dhaivata and nişāda will be strong" (as quoted by 'K' and N. S. Bom. Ed., pp. 449, 450). However, in the critical edition of G. O. S. the following reading is found which seems to be quite appropriate. "Dhaivata is strong here, though it becomes weak when eliminated (N. S. XXVIII 116, p. 58).
- 4. This is a jāti of madhyama-grāma in which pañcama and r_{sabha} are consonant. If pañcama be the fundamental note, r_{sabha} cannot be eliminated, and the hexatone is formed by the elimination of r_i , consequently it is not formed.
- 5. Similarly, sa, ni, ma and pa as fundamental notes do not tolerate the elimination of ri and dha for forming pentatone forms, which are therefore possible only with gandhara as the fundamental note.
- 6. The sannidhi and melana of sa and ga with other notes have already been spoken of; their sangati spoken of here, as observed by 'K' is between them 'a mutual relation'. It seems that in Kallinatha's view sannidhi and melana are forms of sangati.
- 7. The purport of the song reads as under:

Obeisance to that (Siva) who is decorated by the ornament of the new moon for his *tilaka* mark and who is delighting to the lotus face of Gauri.

		Se	ction 7	: Jati-s (N	lelodic	types)		341
3.	mā ņa	pā vi	dhā <i>bh</i> ū	pā	má	pā	dha-pa	ma·ga
4.	mă tim	mã	mä	mā	mā	mā	mã	mā
5.	dhā 0	nĩ	рă	та-ра	dhā	ní	pā	pa
6.	mā 0	pā	mā	dhā-ni	pā	ра	pā	pā
7.	rī Pra	gă ņa	mā mā	pā	pā mi	pä gau	mā	pā. rī
8.	rî Va	gā da	mā nd	pā	pā ra	pā vin	mā	pā
9.	pā da	pā	pā	på	pā	pá	pä	på
10.	rī prī	gå	sā ti	sā ka	rI Fam	gā	gā	gā
11.	gā O	gā	pā	dha-ma	dhà	ni-dha	pā	p٤ ⁸
12.	mā 0	pā	mā	p a-ri- ga	gā	gā	ga	gā

13. कैशिकी जातिः

केशिक्यामुषभान्ये ऽंशा निधावंशौ यदा तदा । न्यासः पञ्चम एव स्यादन्यदा द्विश्रुती मतौ ॥९४॥ निगपान्न्यासान्निधयोरंशयोविदुः । अन्ये đ रिलोपरिधलोपेन षाडवौडुवितं मतम् ॥९६॥ संगतिमिथः । रिरल्पो निपबाहल्यमंशानां षाडवौडुविते द्विष्ट: क्रमात्पञ्चमधैवतौ ।।९७॥ षाङ्जीवत्पञ्चपाण्यादि गान्धारादिस्तु मूर्च्छना । पञ्चमप्रेक्षणगतध्र्वायां विनियोजनम् ॥९८॥

^{8.} Ad. ed. of S. R. reads pā pā which has been modified as pā pā with tāra sign on the basis of 'K' and K. R. since that is technically sound.

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अस्यां कैशिक्यां गान्धारपञ्च्चमनिषादा न्यासाः । रिवर्ज्याः षट् सप्त वा स्वरा अपन्यासाः । अस्याः प्रस्तारः—

कैशिकी 83. पा धनि पा धनि गा गा गा गा ۶. ली के ह त पा मा निध निध पा पा पा 2. TL. नु का म त नी संं सा री री री री з. धा वि वि ला सं Ħ F सा सा सा री गा मा मा मा ۲. ति ल क यू त धां नीं धां मां सां पां मां धां ۲. र्धो ઇસં ল मू गा रो सा धनि रो री री री ٤. नि सो भं Ħ धा धा मा मा री सा सा गा 19. तं म ख क म् गा मा मा निधनि नी नी ញា ۲. T हा 21 म नी गा गा गा गा गा ती गा ٩. जं रो स गा नां नां नां घं पा पा पा गा 80. दं दि स ह मा मा q पा TP. ११. मि लो च मा Я σ

१२. सा मा गा निंधनि नो नो मा गा न वि शे षं

[तत्र साकल्येन पदयोजना]

[केलोहतकामतनुविभ्रमविलासं तिलकयुतं मूर्धोर्घ्वबालसोमनिभम् । मुखकमलमसमहाटकसरोजं हृदि सुखदं प्रणमामि लोचनविशेषम् ।।]

(xiii) Kaiśiki : (95-98)

In kaišikī, excepting $rsabha^1$, all are fundamental notes; when however, $nis\bar{a}da$ and *dhaivata* are the fundamental notes, then only pañcama² is the final note, otherwise⁸ nisāda and gāndhāra are accepted (as the final notes). Others, however, think that in case nisāda and dhaivata are the fundamental notes nisāda, gāndhāra and pañcama can be the final notes.⁴ The hexatonic and the pentatonic formations are accepted to be (caused) by the respective elimination of rsabha, and rsabha and dhaivata. Rsabha is rare⁵, nisāda and pañcama are profuse⁶ and the fundamental notes are in concert with each other. Pañcama and dhaivata are repugnant⁷ respectively to the hexatonic and the pentatonic formations. Pañcapāņi etc.

- 1. That is, sa, ga, ma, pa, dha and ni.
- 2. This is ordained by Bharata who says: "Gandhara and nigada are the final notes. When dhaivata is the fundamental note as also nigada, the final note is desired to be pañcama" (as quoted by 'K' and also Bom. Ed., pp. 452, 453).
- 3. That is when sa, ga, ma and pa are the fundamental notes.
- 4. Such as Matanga who says: "When *dhaivata* and *nişāda* are fundamental notes, *pañcama* is also a final note." Thus in this view also the special position of *pañcama* in relation to *dha* and *ni* as the fundamental notes, is retained in addition to *ni* and *ga* as the final notes.
- 5. That is, in the state of completeness.
- 6. Obviously they are very profuse since they are also included in the fundamental notes.
- 7. That is, pnācama is repugnant to the formation of the hexatone and dhaivata to that of the pentatone, 'K' explains that it is so because ri and pa are in consonance in the madhyamagrama. So ri cannot be eliminated while pa is the fundamental note and dha cannot be eliminated while dha is the fundamental note.

Treatment of Svara

are like those of sadji, the marchana commences with gandhara and the proper application is in the *dhruva* (song) of the fifth act. (95-98)

In this kaišikī, gāndhāra, pañcama and nīşāda are the final notes and six notes leaving aside *rṣabha*, or even all the seven⁸ notes, are the semifinal notes.

Its prastāra⁹:

1.	pa Ke	dha-ni	pā lī	dha-ni	gā ha	ga	gā ta	gā
2.	pā ka	pā	mā ma	ni-dha <i>ta</i>	ni-dha <i>nu</i>	pã	pā	ра
3.	dha vi	ŋſ	sā bhra	sā ma	rī vi	rI la	rI	rI sam
4.	sā ti	sā. Ia	sā ka	rI yu	gā tam	mā	mā	mä
5.	mā mū	dhā	nî rdho	dhā	mā rdkva	dhā ba	mā	pā la
6.	gā so	rī	sā ma	dha-ni <i>ni</i>	rī bham	rī	rī	rī
7.	gā Mu	rï kha	sā ka	sā ma	dhā Iam	dhā	mā	mā
8.	gā a	gā sa	gā ma	mā	mā ha	ni•dha -ni	nī fa	nī
9.	gā ka	gā sa	nī 70	nī	gā jam	gā	gā	gā

- 8. The alternative for the seven semifinal notes has been provided by the author in view of Bharata's statement that, "sometimes even *tsabha* becomes the semifinal note" (as quoted by 'K' and also see N. S., G., O. S. XXVIII 138, p. 63). 'K' presents another view as well according to which the expression 'sometimes' refers to the state of completeness.
- 9. The purport of the song is as under :

Obeisance to the lotus face with the *tilaka* mark on the forehead resplendent with the new moon on the head, graced by the amorous perturbance that playfully destroyed the physical frame of cupid, having a special eye beautiful as the unparalleled golden lotus and bestowing comfort to the heart.

Section 7 : Jati-s (Melodic types) 345										
10.	gā hf	gā di	nî ¹⁰ su	nĩ kha	ni-dha <i>dam</i>	pa	ра	ра		
11.	mā pra	рā į•а	mā mā	pā	pā mi	pā lo	mā ca	mä		
12.	sā na	ınā <i>vi</i>	gā n še	i-dha-i	ni nI <i>şam</i>	nf ¹¹	mā	gā		

14. मध्यमोदीच्यवा जातिः

पञ्चमांशा सवा पूर्णा मध्यमोवीच्यवा मता। लक्ष्म शेषं विजानीयाद् गान्धारोबीच्यवागतम् ॥९९॥ मूर्च्छना मध्यमादिः स्यात्तालश्चच्चत्पुटो मतः। चतुर्थस्य प्रेक्षणस्य ध्रुवायां विनियोजनम् ॥१००॥ अस्यां मध्यमोवीच्यवायां मध्यमो न्यासः । अस्याः प्रस्तारः---

१४. मध्यमोदीच्यवा

१.	पा	धनि						
	दे		हा		ર્ધ	रू		प
ર.	री	री	री	गा	सा	रिग	गा	गा
	म	ति	कां		ति	म	म	ल
₹.	नी	नी	नी	नी	नी	नी	नी	नी
	म	म	लें		ły	कं		ब
۲.	नी	नी	धप	मा	निध	निध	বা	पा
	ক্ষ	मु	ब	नि	મં			
۲.	पा	पा	री	री	री	री	री	री
	चा		मी		क	रां		बु
દ્દ.	मा	रिग	सा	सघं	नीं	र्नी	नीं	नीं
	হ	ह	दि			व्य	कां	ति

10 & 11. S. R. reads nt but it has been modified to read as nt with the tārasign on the basis of 'K' and K. R. as it is technically sound.

346	Treatment of Svara
6.	मा पा नी सा पा पा गा गा
	प्रवरगणपूजि
۲,	गा पां मां निधं नीं नीं सा सा
	तमजे यं
۶.	पां पां मां धींन पां पां पां पां
	सुराभिष्टुत म निल
१०.	मां पां मां रिग गा गा गा गा
	म नोज व मंबु
११.	गा पा मा पा नी नी नी नी
	दो द धि नि ना द
१२.	मा पा मा परिग गा गा गा गा
	म तिहा सं
१३.	गा गा गा गा मा निर्ध नी' नी'
	शिवंशां तम सुर
88.	नी नी धप मा निध निध पा पा
	च मूम थ नं
१४.	री' गा सा सा मा निंधनि नी' नी'
	वं दे त्रं लो क्य
१६.	नी' नों घा पा घा पा मा मा
	न त च र णं

[तत्र साकल्येन पदयोजना] [देहार्धरूपमतिकान्तिममलममलेन्दुकुन्दकुमुदनिभं चामीकराम्बुरुहदिव्यकान्तिप्रवरगणपूजितमजेयम् । सुराभिष्टुतमनिलमनोजवमम्बुदोदधिनिनादमतिहासं शिवं शान्तमसुरचमूमथनं वन्दे त्रैलोक्यनतचरणम् ।।] Section 7 : Jali-s (Melodic types)

(xiv) Madhyamodicyavā : (99-100)

Madhyamodīcyavā is considered always to be complete¹ with paācama for its fundamental note. Its other features may be understood to be like those of gāndhārodīcyavā.² Its mārcchanā commences with madhyama, tāla is accepted to be caccatpuța and its proper application is in the dhruvā of the fourth act. (99-100)

The final note, in this madhyamodicyavā is madhyama.

Its prastāra⁸ :

1.	pă De	dha-ni	ni ha	nî	mā rdha	pā. rū	nī	pā pa
	20				, and			pu
2.	rī	ri	rí	gā	sā	ri-ga	gā	gā
	ma	ti	kan		ti	ma	ma	la
8.	nī	nĩ	n 1	nī	กเ	nī	nī	ní
	ma	ma	len		du	kun		da
4.	nî	nî	dha-pa	mā	ni-dha	ni•dha	pā	pā
	ku	ти	da	ni	bham			
5.	pā	ра	rĩ	rī	II	rī	rī	ŗΪ
	ca		mt		ka	ram		bu
6.	mā	ri-ga	ga	sa-dha	nī	nī	nī	nī
	รน	ha	di			vya	kan	li
	\mathcal{O}	-		-	5		\smile	J
7.	mā	pā	nI	sä	pa	pā	gā	gā
	pra	V A	та	ga	ņ а	þū		ji

1. That is, no hexatonic or pentatonic forms are possible in it.

2. Other features imply the rareness and the profusion, the sixteen kalā-s and so on—these may be understood to be the same as in gandhārodicyavā.

3. The purport of the song is as under :

Obeisance to Siva in His Ardhanārīšvara form which is extremely bright, pure and resembles (in its whiteness) the clear moon, white jasmine and the white water lily, who is worshipped by the chiefs of his troops, extremely resplendent like the golden lotus, who is invincible, is adored by the gods, has the speed of the wind and of the mind and the sound of the clouds and of the ocean and has the tumultuous laughter, who is peaceful, the vanquisher of the army of demons and whose feet are worshipped by all the three worlds.

248			Tre	atment of	f Svara	•		
8.	gä ta	pā ma	ma je	ni-dha	nî <i>yam</i>	nī	sā	sā
9.	p a Su	pā rā	ma bhi	dha-ni ş{u	pā ta	pā ma	pā ni	pā la
10.	mā ma	pā no	mā <i>ja</i>	ri-ga	gā Þa	ga mam	gā	gā bu
11.	gā do	pā	mā da	p a dhi	nî ni	ni nz	זמ	nI da
12.	mā ma	pā li	mā ha	pa-ri-ga	g a sam	gā	gā	gā
13.	gā Śi	gā vam	ga śan	gā	mā la	ni-dha <i>ma</i>	n i su	ni ra
14.	nî ca	nî mû	dha-pa ma	mā <i>tha</i>	ni-dha <i>nam</i>	ni-dha	pā	pā
15.	ri van	gā	sā de	sā	mā trai	ni-dha-ni <i>lo</i>	ni <i>kya</i>	זת
16,	ni na	nî ta	dhā ca	ра 18	dba pam	pa	mā	mā⁴

15. कार्मारवी जातिः

कार्मारव्यां भवन्त्यंशा निषावरिपर्धवताः । बहवोऽन्तरमार्गत्वादनंशाः परिकोर्तिताः । ११०१ । । गान्ध्रारोऽत्यन्तबहुलः सर्वांशस्वरसंगतिः । चच्चत्पुटः षोडशात्र कलाः, षड्जादिमूर्च्छना । १०२ । । पञ्धमस्य प्रेक्षणस्य ध्रुवायां विनियोजनम् । अस्यां कार्मारव्यां पञ्चमो न्यासः । अंशा एवापन्यासाः । अस्याः प्रस्तारः---

		Se	ctio	a 7 :	Jaii	-s (N	Aelod	lic ty	pes)
१४.	कार	र्गारवं	t						
१.	री	रो	री	री	री	री	री	री	
	तं		स्था		ण्	ल	लि	त	
२.	मा	गा	सा	गा	सा	नी	नी	नी	
	वा		मां		ग	स		त्त	
ર .	नीं	मां	र्नो	मां	पां	पां	गा	गा	
	म	ति	ते		जः	Я	स	र	
۲.	गा	पा	मा	पा	नी	नी	नी	नी	
	सौ		धां		शु	कां		ति	
X.	रो	गं	संा	नी	री	' ग	ा र्र	ों म	π
	ጥ	णি	प	ति	मु	ড়	İ		
૬.	री	गा	री	सा	नी	धवि	न प	ा प	1
	ত	रो	वि	g	ल	सा		ग	
9.	मं।	पं	मं।	तंगि	रंगं व	ग	गा	गा	गा
	र	नि	के		ł	तं			
۲.	री	रो	गा	सम	मा	मा	पा	पा	
	सि	त	पं		न	गें		द्र	
९.	मा	पा	मा	परि	त्म व	пч	गा ग	गा ग	π
·	म	ति	कां		i	तं			
80.	धा	नी	पा	मा	धा	नी	सा	सा	
•	ঘ		ण्मु	ख	वि	नो		द	
११.	मी	नी	नो	नी	नी	नी	नी	नी	
	क	τ	ष		ल्ल	वां		गु	
१२.	मां	मां	घां	नीं	सन्	ानि	धा	पा	पा
•••		वि			स		की		न

の一般の時間の一般の

^{4.} Ad. ed. reads ma which has been modified to read as ma with the tara sign on the basis of the interpretation of 'K' and the surmise of K. R. which is technically sound.

१३.	मा	पा	मा	परिग	ा गा	ग	गा	गा
	न	वि	नो		दं			
१४.	नी	नी	षा	धनि	गा	गा	गा	गा
	Я	গ	मा		मि	दे		व
१ ४.	संा	री	गं।	संा	नी'	नी'	नी	नी'
	π		ज्जो		T	वी		त

य ज्ञा प था त १४. नी'नी धं धं पं पं पं पं कं

[तत्र साकल्येन पदयोजना]

[तं स्थाणुललितवामाङ्गसक्तमतितेजः-प्रसरसौधांशुकान्ति-फणिपति-मुखमुरोविपुलसागरनिकेतं सितपन्नगेन्द्रमतिकान्तम् । षण्मुखविनोदकरपल्लवाङ् गुलिविलासकोलनविनोदं प्रणमामि देवयज्ञोपवीतकम् ।।]

(xv) Kārmāravī : (101-103b)

In kārmāravī, the fundamental notes are nişāda, rşabha, paācama and dhaivata. Due to antaramārga the non-fundamental notes¹ are said to be profuse, gāndhāra² is very profuse and all the fundamental notes are in concert with each other. Caccatpuța is the tāla and there are sixteen kalā-s in it. The marcchana commences with sadja and its proper application is in the dhruva of the fifth act. (101-103b)

Pañcama is the final note in this kārmāravī and its fundamental notes are the semifinal notes.

Its prastāra⁸ :

1.	rī	r٢	rī	гĭ	rĩ	rĭ	rī	rī
	Tam		sthä		ถุน	la	li	ta
2.	mä	gā	sā	ga	sā	nI	nī	nī
	50		māń		ga	5 <i>a</i>		kia
3.	nī	mä	nī	mā	pā	pā	ga	gā
	ma	ti	te		jaḥ	pra	sa	74
4.	gā	pā	mā	pā	nî	٦ſ	nſ	nt
	sau		dhān		śu	kan		ti
5.	rī	gā	sā	٦ſ	rī	gā	٢Ĩ	mā
	pha	ņi	ра	ti	mu	kham		
6.	rī	gä	rī	sā	n٢	dha-ni	pā	pā
	u	10	vi	pu	la	50		ga
7.	mā	pā	má	pa-ri-ga	gā	gā	gā	gā
	ra	пі	ke		taın			

3. The purport of the song reads as under :

Obeisance to that sacred thread of Lord (Siva) which is attached to the graceful left side of His and is extremely resplendent, rediating the splendour of its silvery rays. having the king of serpents (vāsuki) as its mouth (knot), which has the ocean of the vast chest (of Siva) for its abode, which is (made of) the white serpent of extraordinary brilliance and which serves for the amusement of Sapmukha, who, in his graceful play, engages his artful fingers in toying with it.

An alternative interpretation :

Obeisance to the hood of that king of serpents (Vāsukī), the lovely white snake, who, like the sacred thread of the Lord, as it were, is attached to the graceful left side of Siva and is extremely resplendent, radiating the splendour of its silvery rays, who has the ocean of the vast chest (of Siva) for its abode, and who amuses Saumukha engaged in toying with it by the sportive movement of the fingers of his graceful hands.

^{1.} The non-fundamental notes are sa, ga, and ma, and as such they should be weak, but they are said to be profuse because of antaramarga (see verses 52-53 for the definition). 'K' raises the question, "If the fundamental as well as the other notes are characterised by profusion, what would be the distinction in-between them?" and he answers, "the fundamental notes are used by way of sthayt (stable pattern of tonal movement) and other notes, even though frequently repeated are employed as sañcdri-s (circulatory). Moreover, this is provided in view of Bharata's statement, "The non-fundamental notes are always strong because of usage" (as quoted by 'K').

^{2.} Because gandhara is in concert with all the notes as stated by Bharata; "Gandhara specifically moves everywhere. (i. e. among all the notes)" Cf. N. S., G. O. S. Ed. XXVIII 136, p. 62.

[•] Comp. S. Raj (Vol. I, p. 235) which reads कोपागिनकालि (i. e. the splendour of the fire of anger) instead of मोधांशुकान्ति of the Ad. ed. of S. R.

352			Т	reatment	of Svara				
8.	r1 si	r] 1a	gā Pan	sa-ma	inā 114	mä gen	pā	pă dra	
9.	mā ma	pā ti	mā kān	pa-ri-g	a gā tam	ga	gā	gā	
10.	dhā Şa	nī	рā <i>ņти</i>	mā kha	dhā vi	nt no	\$3	sā da	
11.	nï ka	nī ra	nī pa	ា	nî <i>lla</i>	nî od h	٦ľ	nî gu	
12.	mā li	mā vi	dhā /a	nI	sa-ni-ni <i>sa</i>	dhā <i>k</i> i	pä	ра <i>Іа</i>	
13.	mā na	pā oi	mā no	pa-ri-ga	gā dam	gā	gā	gā	
14.	nī pra	nî Ça	ра <i>m</i> а	dha-ni	gā mi	gā de	gā	gā Va	
15.	sā ya	rí	gā jño	sā	nî pa	nî vi	nî	ni Ia	
16.	ni kam	ni	dhā	dhā	pā	pā	pā	pā	

16. गान्धारपञ्चमी जातिः

अंशो गान्धारपञ्चम्यां पञ्चमः, संगतिः पुनः ।।१०३।। कर्तंव्या ऽत्रापि गान्धारीपञ्चम्योरिव भूरिभिः । चच्चत्पुटः षोडशात्र कला गादिश्च मूर्च्छना ।।१०४।। तुर्यप्रेक्षणसम्बन्धिध्रुवागाने नियोजनम् । अस्यां गान्धारपञ्चम्यां गान्धारो न्यासः । ऋषभपञ्चमावपन्यासौ । अस्याः प्रस्तारः---

१६. गान्धारपञ्चमी

- १. पा मप मध नो घप मा घा नो कां
- २. सनिनि धा पा पा पा पा पा वा वा

तं

Section 7 : <i>jati-s</i> (Melodic ३. घानी सा सा मा मा पा वा में क दे ४. नीनीनीनीनी नी नी प्रेंखो लमा	पा श नी
वा मैं क दे ४. नी नी नी नी नी नी	श्व नी
	न
४. नी नी घप मा निघ निघ पा	पा
कम ल निभं	
६. पा पा री री री री री	री
वर सुर भि कु सु	म
७, मा रिग सा सध नी नी नी	नी
गं घा घिवा	सि
म, नी नी स <mark>ा</mark> रिस री री' री' री'	री'
तम नो ज्ञ	
९. नी गा सा निग सा नीं नीं	नीं
नगरा ज सू	नु
_	m
रतिरागर भ	स
	र्गे
	ग्र
	n
ह लीलं तं	
१३. नीं नीं पांधांनीं गा ग	
प्रणमा मिदेवं	
१४. नीं नीं नीं नीं नीं नीं नीं न चंद्रा धंमं स	-
संस्था ह	
१४. मां मां घां नीं सनिनि घा पा पा त वि ला सकी ल	ſ

१६. मा पा मा परिंग गा गा गा न विनो दं

[तत्र साकल्येन पदयोजना]

[कान्तं वामैकदेशप्रेङ्खोलमानकमलनिभं वरसुरभिकुसुमगन्धाधि-वासितमनोज्ञनगराजसूनुरतिरागरभसकेलीकुचग्रहलीलम् । तं प्रणमामि देवं चन्दार्धमण्डितविलासकीलनविनोदम् ।।]

(xvi) Gāndhāra-pañcamī :

In gandhāra-paācamī, the fundamental note is paācama and like gāndhārī and paācamī, here too, many notes have to be brought in concert with each other¹; (the tāla is) caccatpuţa, there are sixteen kalā-s, its mārcchanā commences with gāndhāra and its proper application is in the dhruvā song related to the fourth act. (103c-105c)

In this gandhara-pancamt the final note is gandhara, and rsabha and pancama are the semifinal notes.

Its prastāra² :

1.	pā Kan	ma•pa	ma-dha	nī	dha - pa	mä	dhā	nĩ
2.	sa-ni-	ni dha	pā tam	pā	рĩ	р а	pā	pā
3.	dhā Vð	nī	sā mai	sā	mā ka	mā de	្រង	pā ša

- 1. In gandharl, the fundamental and the final notes are in concert with the rest of the notes, so here too likewise, gandhara and pañcama are deduced to be in concert with the rest, viz. sa, ri, ma, dha and ni. In pañcami ri and ma are in concert, so may it be understood here as well.
- 2. The purport of the song is as under:

Obeisance to that beloved Lord who is like the swinging lotus in leaning towards his left side alone (Parvatt being seated to his left), who is sportively making love by briskly and playfully holding the breasts of the beautiful daughter of the mountain (Parvatt) scented by the perfume of the most fragrant flowers and who takes delight in sporting the half moon for his embellishment.

					•			•
		S	ection 7 ;	Jati-s (Melodic	types)		355
4.	nI preñ	n۲	n i kho	nî	n¶ la	п Г <i>т</i> д	nî	nI na
5.	nî ka	nI ma	dha-pa <i>la</i>	mā ni	ni-dha <i>bham</i>	ni-dha	pā	pā
6.	ра <i>Da</i>	pā ra	ri su	rī Ta	r1 bhi	rī ku	ri su	rī
7.	mā gan	ri-ga	sā dhā	sa-dha <i>dhi</i>	nI	nî vd	nt	ma nI
8.	nî la	nI ma	sā no	ri-sa	rî jila	rĩ	rī	si rî
9.	nľ na	gā ga	sä ra	ni-ga	sā ja	nî sû	n٢	nI ⁸
10.	nĭ 72	mā ti	nt rā	mā	pā ga	pā ra	gā bha	nu gā
11.	gā ke	på	ma li	þā	nī ku	nî ca	n1	sa ni gra
12.	mā ha	pā [1	mā Iam	pa-ri-ga	gā. tam	gā	gā	gā
13.	nî <i>þra</i>	ni ņa	pā mā	dh a	nî mi	gā de	gā	gā vam
14.	nt can	nī	nt drā	nî	nî rdha	nt maņ	nï	n1
15.	mā ta	mā vi	dhā la	nî	sa-ni-ni <i>sa-kt</i>	dha la	pā	pā
16.	mā na	pa vi	mā no	pa-ri-ga	gā dam	gā	gā	gä
				ञ्चान्ध्री				
			निरिगवा		ोनिधयोस	त्तया ।।१	०४॥	
			नमंशानुक		Ş	जिल् ।		
	षाडवं	षड्जल	गेपेन म	ध्यमादिर	ন্নু মুন্দ	र्छना ॥ १	0511	
	F		~ ~					

3. Ad. ed. of S. R. reads *n* which has been modified to read as *n* with a dot above in conformity with 'K' and K. R.

प्रकोतिताः ।

कलातालविनियोगाः

पुर्वावत्त

3 56		Treatment of Svara
	अस्या	मान्ध्रचां गान्धारो न्यासः । अंशा एवापन्यासाः ।
प्रस्त	तारः—	
	१७.	आन्ध्री
	१.	गा रो री री री री री री
		त रुणें दुकु सुम
	૨.	री गा री गा री री री री
		ख चित ज टं
	3.	री रो गा गा री री मा मा
		त्रिदिवन दी स लिल
	۲.	री गा सा धनि नीं नीं नीं नीं
		धौ त मुखं
	¥.	नों री नीं रीं धींन घींन पां पां
		न ग सूनु प्रणयं
	દ્દ.	मां पां मां रिंग गा गा गा गा
	-	वेदनिधि
	७.	री री गा सस मा मा पा पा
		परिणा हितुहिन
	Б.	मां पां मा रिग गा गा गा गा
		शौ ल गृहं
	९.	धां नीं गा गा गा गा गा गा
		अमृत भवं
	१०.	पा पा मा रिंग गा गा गा गा
	•	गुणर हितं
	११.	नी नी नी नी री री री री
		त म व निर विश शि
	१२.	री री गा नी सा सा नी नी
	•	ज्वलनजलपवन

अस्याः

	Section	17: Jali-s	(Melðdic	types)
• •		रिंगं गा	गं। गं।	गं।
ग	ग न	त नुं		
१४. રો	ं रोः गंा	संमं मं।	मं। पं।	पंा
श	र णं	র	जा	मि
१५. मंा	मं नीं	नीं सं।	रों गं।	पंर
য্য	भ म	ति कृ	त नि	ल
१६. रिंग	गंगा गा	गं। गं।	गा गा	गं।
यं				
	[त	त्र साकल्येन	ग पदयोज	ना]
तिरुणेन्द्र	कसमखचि	রজর্ট স্নি	दिवनदीस	लिलधौतमुखं
				हेतुहिनशैलगृहम् ।
				लनजलपवनगगनतनुं
•		_		मतिकृतनिलयम् ।।]

(xvii) Andhri : (105c-107b)

In andhri, the fundamental notes are nisada, rsabha, gandhara and pañcama; 1sabha and gandhara as well as nisada and *dhaivata* are mutually in concert with each other.¹ From the respective fundamental notes one may proceed up to the final note.² The hexatone is (caused) by the elimination of sadja, the murchana commences with madhyama and the kala-s,

^{1. &#}x27;K' interprets this to be a relation of sannidhi and melana spoken of in raktagandhar! (verse 91 ante).

^{2. &#}x27;K' interprets amsanukramataly of the text to the following purport: Of the four fundamental notes, viz. ni, ri, ga and pa one may sing that one which is employed as such and then proceed to sing the non-fundamental or co-fundamental notes in order to come to a close with the final note. This provision is based on Bharata's statement : "Gandhara and Isabha are related to each other in their movement and nisada and dhaivata as well are directed towards the final note" (as quoted by 'K', and also see Bom. Ed., p. 451 with a slight variation of the text).

58			Tre	eatment o	f Svara				1			2	Section 7	: Jati-s	(Melođi	ic types)		359
				applicat 5c-107b		said to	be li	ke those		10.	pā gu	рā ņa	mä 7a	ri ga <i>hi</i>	gā tam	દુર્શ્વ	gā	gā
•				inal not			and t	he very	and the second second	11.	nI ta	nî ma	ní va	nî ni	ri ra	rI vi	rî śa	rî Si
unc	lame	nțal note	s are th	ne semifi	nal note	:5.			90 90 00 00 00 00 00 00 00 00 00 00 00 0	12.	rſ	rī	gā	nī	sa	sá	nī	٦Ĩ
ts þ	rastā	ra ⁵ :									jva	la	na	ja	la	pa	va	na
1.	gā Ta	rí <i>ru</i>	r] ņen	ſĨ	rî du	ci ku	ri su	rī ma		13.	på ga	pā ga	inā na	ri-g a <i>tu</i>	gā num	gā	gā	gā
2.	ri kha	ga ci	ri Ia	gā ja	rī ţam	rī	rI	rī		14.	rī ša	rI ra	gā ņam	sa-ina	mā vi a	ınā ja	pā	pā mi
3.	rî tri	rī di	gā va	gä na	rï di	ri sa	mā li	mā la		15.	mā šu	mā bha	nī ma	nī ti	sā kŗ	rī ta	gā ni	pā Ig
4.	rī dhau	gā	sa Ia	dha-ni mu	nī kham	nī	nî	ni		16.	ri-ga yam	gā	gā	gá	gā	gä	gå	gā
5.	ni na	ri ga	ni su	rī	dha-ni <i>nu</i>	dha-ni pra	р ā <i>ņа</i>	pā ⁶ yam			-		18	नन्दयन	ती जा	तिः		
6.	mā ve	pā	mā da	ri-ga ni	gā dhim	ga	gā	gā			नन्दयः	न्त्यां प	 चमो ऽंशो	•			: ।।१०७	41
7.	ri pa	rI 1i	gā nā	\$a- \$a	mā hi	mā tu	pā hi	pā na				तु पञ्चग	नः प्रोक्तो		त्यां गीत	विविभिः	ł	
8.	mā Sai	pā	mā Ia	ri-ga g1	gā ham	gā	gā	ga					बाहुल्य ना तालः		`		।।१०न	11
9.	dhā A	ni mf	gā ta	gā bha	gā vam	g a	gā	gā			विनिय		ध्रु वागाने			-	11803	11
		on this po	rtion, bu	 ling of tex ut 'S' see his reading	ms to rea	ad kaldta	la (i.e	comment kala and		अस	अस्यां याः प्रस्त		ान्त्यां गा	न्धारो ।	न्यासः ।	मध्यम	पञ्च माव	पन्यासौ ।
		That is, G			-				. 1		१८.	नन्दयन्त	ती					
		I take	e shelter , air an	d the sky	iva) who for his b	has the ody, wh	o has p	oun, moon blaced the			۶.	गा ग सौ		ा पा प	रा धप	मा	·	
	flower of the new moon in the locks of his hair, whose face is washed with the waters of the Ganges, who is the beloved of the daughter of the mountain (Parvati), who is the treasure house of the veda-s, who has the vast snow-capped peak for his abode, who is the source of nectar, who is devoid of all quali- ties (guna-s) and in whom all wisdom abides.						beloved of ne treasure eak for his					। धा ध	ग धान	ी सनि	नि धा			
				ads pa pa	which h		modifi	ed to read			३.	पां पां	ं पां पां	पां प	ां पां	पां		

1

म्यं

6. Ad. ed. of S. R. reads pa pa which has been modified to read as pa pa with a dot above, in conformity with 'K' and K. R.

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•

Its

1.	gā Ta	ri ru	r¶ <u>n</u> en	ſĨ	rî du	ci ku	ri su	rī ma
2.	ri kha	ga ci	rī Ia	gā ja	rī ţam	rī	rI	rī
3.	rl tri	r¶ di	gā va	ga na	rï di	ri sa	mā li	mā la
4.	rI dhau	gā	sa Ia	dha-ni <i>mu</i>	ní kham	nĭ	nĭ	nĭ
5.	ni na	ri ga	ni su	rī	dha-ni nu	dha-ni pra	р ā <i>ņa</i>	pā ⁶ Jam
6.	mā ve	pā	mā da	ri•ga ni	gā dhim	ga	gā	gā
7.	rî pa	rī 1i	gā nd	\$2- \$3	mā hi	mā tu	pā hi	pā na
8.	mā Sai	pā	mā la	ri-ga g1	gā ham	gā	gā	gā
9.	dhā A	nî mj	gā ta	gā bha	gā vam	ga	gā .	gā

				Trea	tmen	t of	Svari	a
۲.	धां	नीं	मां	पां	गां	गां	गां	गां
	वे		वां		ग	वे		द
¥.	मा	री	गा	गा	गा	गा	गा	गा
	क	र	क	म	ल	यो		नि
Ę.	मा	मा	षा	पा	धा	निध	पा	पा
	त	मो	र	जो	বি	व		
७.	धा	नी	मा	पा	गा	गा	गा	गा
	র্জি	तं						
5.	गम	प	। प	া প	। मा	मा	गा	गा
	हरं							
۶.	धा	नी	मा	पा	गा	गा	गा	गा
	भ	व	ह	र	क	म	ल	गृ
80.	मा	मा	मा	मा	मा	मा	मा	मा
	हं							
११.	री	गा	मा	पा	पम	पा	पा	नी
	शि	वं	राां		तं	सं		नि
१२.	र्रो	रीं	रों	रीं	पां	qt	मां	मां
	वे		হা	न	म	षू		ਬੰ
१३.	धां	नीं	र्सान	ানি গ	वां प	ां पां	पां	पां
	मू	ष			অ	ली		लं
૧૪.	घां	नीं	मां	पां	गां	गां	गां	गां
•	ভ	र	गे		হা	મો		ग
१ ५.	गा	पा	वा	पा	धा	मा	गा	मा
- ·•	भा		सु	र	शु	મ	q	થુ
१६.	घा	धा	नी	धा	पा	पा	पा	पा
• •	लं						,	

Section 7 : Jati-s (Melodic types)									
१७,	री	गा	मा	पा ।	पम	पा	पा	नी	
	अ	च	ল	त प	1	ति	स्र	नु	
१ ५,	रीं	रीं	र्रो	रीं	पां	पां	पां	पां	
	क	र	पं		क	जा		म	
88.	पा	पा	पा	पा	धा	मा	मा	मा	
•	ल	वि	ला		स	की		ल	
२०.	नीं	पां	गां	गमं	गां	गां	गां	गां	
\ - •	न								
२१.	र्रो	रीं	गां	गां	मां	मां	मां	मां	
11.				म				त	
२२.	•						पा	पा	
**•				व				ल	
					-		पा		
२३.		सा	-	л ч :				ग	
24							संा		
२४.	न। र	_	नाः का		*()	श	~~~	~~~	
	-								
२४.	रा अ		-	ग। रः			पा	पा ल	
२६.	री								
				-2					
૨७.			पा दे				गा	गा दं	
	वं				-	्ख 			
२५.	मा								
							म		
२९.							पा		
	म	घु	स्र		ব	न		सु	

Section 7 : Jali-s (Melodic types)

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362	Treatment of Svara'							
३०.	रो' रो' री' री'मा पाधा मा							
	ते जो धि _. क सु							
३१.	नी नी नी नी धापा मा मा							
	ग ति यो							
રૂર.	मा परिग गा गा गा गा गा गा							

नि

तित्र साकल्येन पदयोजना] सौम्यं वेदाङ्गवेदकरकमलयोनि तमोरजोविवर्जितं हरं भवहरकमलगहं शिवं शान्तं सन्निवेशनमपुवं भुषणलीलमूरगेशभोगभासुरशुभपृथुलम् । अचलप्तिसूनुकरपङ्कुजामलविलासकीलनविनोदं स्फटिकमणिरजतसितनवदूकुलक्षीरोदसागरनिकाशम् । अजशिरःकपालपृथुभाजनं वन्दे सुखदं हरदेहममलमधुसूदनसुतेजोऽधिकसुगतियोनिम् ।।]

(xviii) Nandayanti : (107-109)

In nandayanti, the fundamental note is pañcama and the inițial note is known to be gandhara¹; but however pañcama is said to be the initial note in this by some vocal masters. There is a profusion of low rsabha², the hexatone is (caused) by the elimination of sadja, hrs yakā is the mūrcchanā, tāla is

like that of the previous one⁸, the kalā-s are twice as many⁴ and its proper application is in the dhruva (song) of the first act. (107c-109).

In this nandayanti the final note is gandhara and madhyama and pañcama are the semifinal notes.

Its prastāra⁵ :

1.	gà Sau	gā	gā	gā	pā	pā	dha-pa	mā
2.	dhā O	dhā	dhā	dhā	abä	nĩ	sa-ni-ni	dhā
3.	pā myam	pá	рă	pā	pā	pā	pa	pā
4.	dha ve	nî	nis daŭ	pā	yā ga	gā ve	gā	gā da
5.	mā ka	rī ra	ga ka	gā ma	ga la	gā 10	ga	gā nim
6,	mā ta	rnā mo	pā 1a	pā ju	dhā vi	ni-dha <i>va</i>	på	pā
7.	dha rji	nî <i>tam</i>	mā	ра	gā	gā	gā	gā
8.	ga-ma haram	pā	pā	pā	mā	mā	gā	gå

That is, like that of andhri, viz. caccatputa. 3.

That is, twice sixteen, viz. thirtytwo, 4.

The purport of the song is as under :---5.

Obeisance to Hara (Siva) who is gentle, who is as it were, Brahma in the manifestation of the Vedanga-s and the Veda-s and who is devoid of inertia and activity (tamas and rajas), the liberator of the phenomenal existence, having the lotus for His abode, benevolent, tranquil, beginningless, the promulgator of law and order, sporting with ornaments. extending in virtue by the brilliance of his sports with the chief of serpents (Vasuki), enjoying the pure graceful play with the lotus hands of the daughter of the mountain (Parvati), and (obeisance) to His body which is (sparkling) like a crystal, jewel silver, a (piece of) white new cloth and the ocean of milk, which has made a vessel of the skull of the goat-headed (Dakşa), which is brilliant like the purity of Madhusudana (Vișpu) and is the cause of the highest state of being.

^{1.} It may be observed that even according to Bharata, as also Sārngadeva the general rule for all the jāti-s is that the fundamental note is also the initial note; this however, is an exception made by Bharata himself, "in a particular jati, gandhara may be used as the initial note" (as quoted by 'K').

^{2.} Here 'K' elucidates, "Since nandayants is a jati of madhyamagrama, it is not ordinarily accessible to movement in the lower register upto rsabha, yet because it is based on hrsyaka murcchana which commences with the low pancama that has *tsabha* as the only consonant note, it becomes permissible to make a profuse use of low 1 sabha. Moreover, Bharata has also said, "There is a profusion of *ttabha* here, and that pertains to the lower register" (as quoted by 'K').

			Treat	ment of	Svara	•						Sectio	n 7:	Jati-s (M	lelodic	types)		
9.	dha <i>bha</i>	nï Øa	mā ha	pā ram ^o	ga ka	gā ma	gā la	gā gī		23.	sā kşi	sā	dha-ni <i>roda</i>	i dha	pā sā	ра	pā	pa ge
10.	mä ham	mä	mā	mã	mä	mā	៣ជ	mā		24.	mā ra	pā ni	mā ka	pa-ri-ga	gā šam	gā	s ā	S
1.	rī Si	g a vam	mä san	pā	pa·ma <i>tam</i>	pā san	pā	n i ni		25.	rī A	rī ja	gā Si	gā raķ	m5 ka	mã pa	pā	P L
2.	rî Vê	rī	rí śa	rI na	pā ma	pā pū	mā	mā rvam		26 <i>.</i>	rī pī	rî thu	rī <i>bh</i> ā	gā	mā	ri-ga <i>ja</i>	mä <i>nam</i>	n
3.	dha Bha	nI Şa	sa-ni-ni	dha na	р а /1	pā	pā Iam	pa®		27.	mā van	Ia	pä de	nî	gā su	ga kha	gā dam	g
4.	dha u	ni ^o ra	mä ge	pā	gā ša	ga bho	gā	ga ga		28.	m a ha	mā 7a	pā de	pā	dhā <i>ha</i>	dhā-ni ma	ni•dha <i>mo</i>	n
5.	ga bha	pā	pā su	pā ra	dhā <i>Su</i>	mā bha	gā pr	mā thu		29.	dha <i>ma</i>	dha <i>dhu</i>	sā sû	nî	dhā da	ní na	pā	p s
[6.	dhā lam	dhā	٦Ï	dha	pā	pā	ра	p a		30.	ri le	rí	rí jo	rí	ma dhi	pā ka	dha	T. SU
7.	ri A	gā ca	ma la	pa pa	pa-ma ti	pā sû	pā nu	nî	-	31.	nî ga	nI ti	nl yo	nî	dhā	pā	mä	n
18.	r1 ka	rî ra	rî pan	rī	pā ka	pā jā	pā	pā ma		32.	mā	pa -ri-ga	gà nim	gā	gā	gā	gā	g
9.	pā la	pā vi	pā la	pā	dhā sa	mā ki	mā	ma <i>la</i>	1.597 									
20.	nī na	pā. vi	gā no	ga-ma	gā dam	gā	gā	gā						।. उपसं	-			
~ 1		rī	gā	gā	mā	mã	mā	mā				(i) जा	तिविग	वयकाः व	लामा	न्यानद	হাঃ	
21.	rī spha	ţi	ka	ma	ņi	ra	ja	ta						यात्त्रिधेवै		गरत्विक	• •	
224	nî	Dã	nĭ	mā	nî	dhā	ра	pā			अनुक्ता							
22.	si	ta	na	va	du	kū	-	la			मागाः	क्रमाच्चि	त्रवृात	दाक्षणा,	गात	यः पुन	: 11880	11
	7. 'K' jāti- wit)	observe s to ha	s that thive been do their resp	is is the emonstra ective fu	last o ated in indame	of the the standard	associat ate of co otes, and	intelligible. e modified ompleteness their other			योक्ता	ं संभावित ऽस्माभिः म	त्लासं र	खा सा व	क्षिणप	थे स्थित	11555	u
	forn	ns with	the other	r of the	ir fund	lament	al notes	and so on	9		वात्तिवे	हिगुणा	त्तय।	सव ।	चत्र	चतुगु ण	11	

8 & 9. Ad. ed. of S. R. reads pa pa pa and ni which has been

can be worked out similarly.

वात्तिक द्विगुणा ज्ञया सव चित्र चतुगुणा । सर्वजातिषु जानीयादंशस्वरगतं रसम् ॥११२॥

365

pā ga sā

> pă la

ma

gā

ma Ia

pā su mā su mā

ga7

•

D. Concluding Remarks : 110-115b

(i) General remarks with regard to jati-s : (110-113b)

Wherever not specified, the *tāla* would be threefold, viz. ekakala etc.¹ set in the citra, v_itti and dakşina mārga-s and the māgadhī, sambhāvitā and p_ithulā gīti-s respectively. (110-111b)

The number of kalā-s as introduced by us, pertains to the daksina mārga, which should be known as double in the vārtika and quadruple in the citra. (111c-112b)

The aesthetic delight (rasa) may be understood to be determined by the fundamental note² in all the *jāti-s*. (112cd)

The elements of the derived raga-s are traced⁸ by the specialists among the parent *jati-s*. (113ab)

The author having described the individual characteristic features of the eighteen *jati-s* is now offering some concluding observations on this topic.

Wherever no specific mention of tala etc. is made in the above description, the author lays down a general rule with respect to tala, marga and glii to be applied in all such cases.

The prastara-s of $j \partial t i$ -s have been modelled on daksina marga. The author is here laying down the rule for singing in the other marga-s and glti-s as well. If, for example, $s \partial_t d j t$ has twelve kala-s of eight laghu-s each in daksina marga, it will have twenty-four kala-s of four laghu-s each in vartika and fortyeight kala-s of two laghu-s each in citra marga. In any case the time taken by the song is the same.

- 1. That is, ekakala, dvikala and catuşkala caccotpuța.
- 2. Such as, so and ri as fundamental notes are said to be conducive to heroism and so on.
- 3. It has been mentioned in some of the *jāli-s* as described above, that such a *rāga* is seen; *varāl*i for example is seen in *şādjī*. *Rāgāmisā* is defined by 'K' as ''an integral part of another *rāga.*'' Such elements of the other *rāga-s* are seen or perceived in the *jāli-s* because they are derived from them either directly or through the grāma-rāga-s.

Disyante (lit. 'are seen') is interpreted by 'K' as udbhavyante which may be rendered as "are intuitively felt."

(ii) जातिगानस्य फलश्रुतिः

ब्रह्मप्रोक्तपर्वः सम्यक्प्रागुक्ताः शङ्करस्तुतो ॥११३॥ अपि ब्रह्महणं पापाज्जातयः प्रपुनन्त्यमूः। ऋच्चो यजूंषि सामानि क्रियन्ते नान्यथा यथा ॥११४॥ तथा सामतमुद्भूता जातयो वेदसंमिताः।

(ii) The esoteric value and nature of jati-gana : (113c-115b)

These $(j\bar{a}ti-s)$, if properly sung with the verbal texts formerly composed by Brahmā in the euology of Lord Śiva (can) redeem even the sin of slaying a brahmin.¹ (113c-114b)

As the hymns of the *Rigveda*, the *Yajurveda* and the *Sāmaveda* are not otherwise uttered (except according to the rules), so also the $j\bar{a}ti-s^{2}$ that have originated from the *Sāmaveda* are in conformity with the *veda-s*⁸ (114-115b)

The author here is trying to bring out the importance and the value of jati songs. In the first instance he points out (vide 113ab) to their historical value from the point of musicology; and this constitutes a perceptible benefit ($d_{15}(aphala)$, since the study and practice of jati-songs and their music is helpful in understanding the contemporary raga-s that are derived from them. Secondly, he also points out an imperceptible benefit ($ad_{15}(a-phala)$ also, viz. its potency for accruing religious merit and for absolving one from the greatest of sins.

The author is particular in pointing out that by his time jati-gana (singing of jati songs) had crystallised into unalterable forms, and was cast in tules no longer open to amendment. This may even suggest that jati-gana was already out of date in his time. That is perhaps why he sanctifies it in association with the vedic hymns as an ancient tradition.

- 1. Considered to be the greatest of sins; if that can be redeemed through jāti-gāna, what else cannot be accomplished.
- 2. That is, in contravention of the rules or in the violation of their characteristic features described above.
- 3. The implication is that, it is sinful to sing the *jati-s* except in the form in which it is ordained by tradition.

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Treatment of Svara

It is well known that the vedic hymns are chanted strictly in accordance with the rules for pronouncing the vowels and the consonants in them and with the specific accent, and they cannot be changed in contravention of those rules. Likewise, *jati-s* are also to be sung according to their rules since they are derived from the Samaveda; whatever tonal structure, *tala* and literary text (*pada*) etc. are prescribed for them cannot be violated in *jati-gana*.

ञ्रथाष्टमं गीतिप्रकरराम्

(i) कपाल-कम्बलगानानि

(क) कपालगानानि

शुद्धजातिसमुद्भूतकपालान्यधुना क्रुवे । रागा जनकजातीनां तत्कपालेषु संमिताः ।।१।।

1. षाड्जी-कपालम्

षड्जो ग्रहो ऽंशो ऽपन्यासो गो न्यासो ऽतिबहू गनी । अल्पा रिपनिधा लङ्घ्यो रिः, कला द्वादशोदिताः ।।२।। यस्मिन्षाड्जीकपालं तद् गदितं ग<u>ीत</u>वेदिभिः ।

> Section 8 Giti-s

(i) The kapāla and the kambala songs : 1-14b

(a) The *kapāla-gāna* : (1-10)

Now, I am to describe the kapāla-s that have originated from the *suddhā jāti-s*. The rāga-s of the parent jāti-s bear a resemblance¹ to their respective kapāla-s (1)

(1) Şādjī-kapāla

Sadji kapala is declared by the experts² to be that in which the initial, the fundamental and the semifinal note is sadja and the final note is gandhāra; gandhāra and madhyama are very profuse, rsabha, pañcama, nisāda and dhaivata are rare, rsabha is to be overstepped and the kalā-s are said to be twelve. (2-3b)

1. 'K' interprets 'sammitāh' of text as "sadīšākārāh pratiyante", i. e. they appear to be similar in form.

2. Gllaved i literally would mean those who are the masters of vocal music, but it seems to be used in a wider sense.

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6. धैंवती-कपालम

अत्यल्पर्षभगान्धारं पन्यासं मधभूरि च। षाड्ज्या इव कपालं तद्वैवत्याः सकलाऽष्टकम् ॥८॥

7. नैषाद्री-कपालम्

निधमैरष्टकलकं

ग्रहांशन्यासषड्जं च रिगाल्पमतिभूरिभिः। स्यान्नेषादीकपालकम् ॥९॥

8. कपालगानफलम्

इति सप्त कपालानि गन्यत्रह्योदितैः पदैः । स्वरेश्च पार्वतीकान्तस्तुतौ कल्याणभाग्भवेत् ।।१०।।

(5) Pañcami-kapāla

The kapala with rsabha as the fundamental note, sadja as the initial note, nişāda, şadja, gāndhāra and pancama as the rare notes and having eight kala-s is known to be derived from pañcamī jāti. (7)

(6) Dhaivati-kapāla

The kapāla with very rare rsabha and gāndhāra, with pañcama as the final note, and with profuse madhyama and *dhaivata*, which is like sadji (in other respects) and has eight kalā-s belongs to dhaivatī. (8)

(7) Naisādī-kapāla

The kapala pertaining to naisadi has sadja for its initial, fundamental and the final note, rare rsabha and gandhara, very profuse nişāda, dhaivata and madhyama and eight kalā-s. (9)

(8) The value of kapāla-gāna

Thus, singing (these) seven kapala songs as composed in verse and set to tune by Brahmā in the eulogy of Lord Šiva⁸ one attains the supreme good⁴. (10)

Lit. the consort of Parvati.

4. Kalyana lit. means good fortune, prosperity, happiness, good and so on. Incidentally, it indicates worldly prosperity and spiritual good as the reward for singing kapala songs.

Treatment of Svara

2. आर्षभी-कपालम

यत्रर्षभो ऽंशो ऽपन्यासो मो उन्तो गनिपधाल्पता ।।३।। सो ऽत्यल्पो ऽष्टकलं तत्स्यात्कपालं त्वार्षभीगतम् ।

3. गान्धारी-कपालम्

मध्यमो ऽंशो ग्रहो न्यासो ऽपन्यासो धैवतो बहः ।।४।। यत्राल्पाः सरिगा लोपाद्रिपयोरौड्वं भवेत् । तदगान्धारीकपालं स्यात्कलाऽष्टकविनिर्मितम् ॥ ४॥

4. मध्यमा-कपालम

मध्यमो ऽंशो निरिगपाः स्वल्पा यत्र कला नव । तन्मध्यमाकपालं स्यादिति निःशङ्क्तसम्मतम् ।।६।।

5. पञ्चमो-कपालम्

निधषड्जगमाल्पकम् । ऋषभांशं सग्रहं च पञ्चमीजातिजातमष्टकलं विद्रः ।।७।। कपालं

(2) Ārşabhī-kapāla

The kapala in which the fundamental and the semifinal note is rsabha, the final note is madhyama, and gandhara, nisada, pañcama and dhaivata are rare, sadja is very rare and that which has eight kalā-s is related to ārşabhī. 3c-4b)

(3) Gāndhārī-kapāla

Where the fundamental, the initial, the final and the semifinal note is madhyama; dhaivata is profuse, şadja, rşabha and gandhara are rare, the pentatone is formed by the elimination of rsabha and pañcama, that is gandhari-kapala composed of eight kalā-s. (4c-5)

(4) Madhyamā-kapāla

In the view of Sārngadeva, the madhyamā kapāla is that which has madhyama as the fundamental note, where nisā da, rsabha, gandhara and pancama are quite rare and where the kalā-s are nine. (6)

Treatment of Svara

(ख) कम्बलगानम्

यत्र ग्रहो ऽंशो ऽपन्यासः पञ्च्चमो बहुलस्तु रिः । सो न्यासो मधगान्धारास्त्वल्पास्तत्कम्बलं मतम् ।।११॥ पञ्चमीजातिसञ्जातमल्पताबहुतावशात् । स्वराणां बहवो भेदास्तस्य पूर्वेरुदीरिताः ॥१२॥ प्रीतः कम्बलगानेन कम्बलाय वरं ददौ । पुरा पुरारिरद्यापि ओयते तैरतः शिवः ॥१३॥

(ग) कपालगतपदानि कपालानां क्रमाद् अूमो अहाप्रोक्तां पदावलीम् । झण्टुं झण्टुं ।।१।। खट्वाङ्गधरं ।।२।। दंष्ट्राकरालं ।।३।।

(b) Kambala-gāna : (11-13)

Where the initial note, the fundamental note and the semifinal note is *pañcama*, *rsabha* is profuse, *sadja* is the final note and *madhyama*, *dhaivata* and *gāndhāra* are rare, that is accepted to be *kambala*. It has originated from the *pañcami jāti*. The ancients have spoken of many of its varieties based on the rareness and the profusion of notes. (11-12)

Sometimes in the past Lord Siva, being propitiated by the kambala (song) bestowed a boon upon kambala⁶ (näga), and therefore even today, he is propitiated by them (i. e. the kambala-songs). (13)

(c) The verbal text of the kapala songs : (14ab)

We shall now speak of the verbal text of the kapāla songs as originated⁶ in due order. (14ab)

1. The şādjī-kapāla song

Jhantum jhantum' (1) khatvangadharam (2) damstrakaralam

- 5. Cf. S. Raj, Vol. I, p. 659 for greater information regarding Kambala
- 6. Brahmaprokta lit. 'spoken or sung by Brahmā' who composed
- 7. Jhan(um is one of the suskaksara-s (syllables devoid of meaning said to have been spoken by Brahm5. These meaningless

तडित्सदृशजिह्वं । । ४॥ हौ हो हो हो हो हो हो हो ॥ ४॥ बहुरूपवदनं घनघोरनादं ॥ ६॥ हौ हो हो हो हो हो हो हो ॥ ७॥ ऊँ ऊँ हां रौं हौं हौं हों हों ॥ ५॥ नृमुण्डमण्डितम् ॥ ९॥ हूं हूं कह कह हूं हूं ॥ १०॥ कृतविकटमुखम् ॥ २३॥ नमामि देवं भैरवम् ॥ १२॥ इति षाड्जीकपालपदानि ॥ १॥

झण्टुं झण्टुं खट्वाङ्गधरम् ॥१॥ दंष्ट्राकरालम् ॥२॥ तडित्स-दृशजिह्वम् ॥३॥ हौ हौ हौ हौ हौ हौ हौ हो ।।४॥ वरसुरभि-कुसुम ॥४॥ चर्चितगात्रम् ॥६॥ कपालहस्तम् ॥७॥ नमामि देवम् ॥६॥ इत्यार्षभीकपालपदानि ॥२॥

taditsadrsajihvam (4) hau hau hau hau hau hau hau hau (5) bahurūpavadanam ghanaghoranādam (6) hau hau hau hau hau hau hau hau (7) ūh ūh hrān raun haun haun haun haun (8) nŗmuņdamanditam (9) hūn hūn kaha kaha hūn hūn (10) kŗtavikaţamukham (11) namāmi devam bhairavam.⁶ (12)

2. The ārşabhī-kapāla song

Jhaņţum jhaņţum khaţvāngadharam (1) damşţrākarālam (2) taditsadŗsajihvam (3) hau hau hau hau hau hau hau hau hau (4) varasurabhikusuma (5) carcitagātram (6) kapālahastam (7) namāmi devam⁹ (8).

> syllables form a part of an ancient tradition and even Bharata mentions them at various places (cf. G. O. S. Vol. IV, pp. 107, 108, 112, 118, etc. and XXXIV. 32). All such words are recounted by Śārāgadeva in *Taladhyāya* (cf. S. R, Ad. ed. Vol. III, p. 129). These are also called *stobhākṣara-s.* Oakāra and h in conjunction with vowels or consonants is also included among the *stobhākṣara-s* (cf. Brihaspati, Bharat kā Sangīt Siddhānta pp. 251, 252).

8. The Sanskrit text purports as under :

Obeisance to Lord Bhairava, holding a club with a skull on the top and having terrific teeth, a tongue resembling lightning, a face with many forms and a tumultuous sound, who is decorated by human skulls and bears a terrible countenance.

9. The Sanskrit text purports as under :

Obeisance to the Lord holding a club with a skull on the top, and having terrific teeth and a tongue resembling lightning, whose body is anointed with the best of the fragrant flowers and who bears a skull in his hand. चलत्तरङ्ग ।।१।। भङ्गुरम् ।।२।। अनेकरेणु ।।३।। पिञ्जरं सु ।।४।। रासुरैः सुसेवितं पु ।।४।। नातु जाह्न ।।६।। वीजलम् मां बिन्बुभिः ।।८।। इति गान्धारीकपालपदानि ।।३।।

शूलकपाल ।। ∶ा पाणित्रिपुरविनाशि ।। २।। शशाङ्कधारिणम् ।।३।। त्रिनयनत्रिशूलम् ।।४।। सततमुमया सहि ।। ४।। तं वरदम् ।।६।। हौ हौ हौ हौ हौ हौ हौ हौ ।।७।। हौ हौ हौ हौ हौ हौ हौ हौ ।।६।। नौमि महादेवम् ।।९।। इति मध्यमाकपालपदानि ।।४।।

जय विषमनयन ।।१।। मदनतनुदहन ।।२।। वरवृषभगमन ।।३।। त्रिपुरदहन ।।४।। नतसकलभुवन ।।४।। सितकमलवबन ।।६।। भव मे भयहरण ।।७।। भवशरणम् ।।८।। इति पञ्चमी-कपालपदानि ।।४।।

3. The gandhari-kapala song

Calattaranga (1) bhanguram (2) anekarenu (3) piñjaram su (4) rāsuraih susevitam pu (5) nātu jāhna (6) vījalam (7) mām bindubhih¹⁰ (8).

4. The madhyamā-kapāla song

Sulakapāla (1) pāņitripuravināši (2) šašānkadhāriņam (3) trinayanatrišulam (4) satatamumayā sahi (5) tam varadam (5) hau hau hau hau hau hau hau (7) hau hau hau hau hau hau hau hau (8) naumi mahādevam¹¹ (9).

5. The pañcamī-kapāla song

Jaya vişamanayana (1) madanatanudahana (2) varavışabha-

10. The Sanskrit text purports as under :

Let the water of the Ganges, tremulous with the moving waves, tawny with the innumerable particles of sand and partaken by gods as well as demons, purify me with its drops.

11. The Sanskrit text purports as under :

Obeisance to Mahādeva (the great God) who holds a spear with a skull on the top in his hand, who destroyed Tripura and who bears the crescent of the moon, whose three eyes are his tridents, who is always in the company of Umā and who is benevolent. अग्निज्वाला ॥१॥ शिखावली ॥२॥ मांसशोणित ॥३॥ भोजिनि ॥ सर्वाहारि ॥४॥ णि निर्मांसे ॥६॥ चर्ममुण्डे ॥७॥ नमोऽस्तु ते ॥६॥ इति धंवतीकपालपदानि ॥६॥

सरसग ,चर्मपटम् ।।१।। भोमभुजंगमानद्धजटम् ।।२।। कह-कहहुंक्रुतिविक्रुतमुखम् ।।३।। नम तं शिवं हरमजितम् ।।४।। चण्ड-तुण्डमजेयम् ।।४।। कपालमण्डितमुकुटम् ।।६।। कामदर्पविध्वंसकरम् ।।७।। नम तं हरं परनशिवम् ।।६।। इति नंषादीकपालपदानि ।।७।। इति सप्त कपालपदानि ।।

gamana (3) tripuradahana (4) natasakalabhuvana (5) sitakamalavadana (6) bhava me bhayaharana (7) bhavasaranam¹² (8).

6. The dhaivati-kapāla song

Agnijvālā (1) šikhāvalī (2) māmsašoņita (3) bhojini (4) sarvāhāri (5) ņi nirmāmse (6) carmamuņde (7) namo-astu te¹³ (8)

7. The naisādi-kapāla song

Sarasagajacarmapatam (1) bhimabhujangamānaddhajatam (2) kahakahahunkrtivikrtamukham (3) nama tam sivam haramajitam (4) caņdatuņdamajeyam (5) kopālamaņditamukutam (6) kāmadarpavidhvamsakaram (7) nama tam haram paramasivam¹⁴ (8).

12. The Sanskrit text purports as under :

Victory, O! the three eyed one (Siva), the burner of cupid's body, the rider of the bull, the destroyer of Tripura, saluted by all the worlds, having a white lotus face, liberator from the phenomenal involvement (thou) be my shelter.

13. The Sanskrit text purports as under :

O ! the fleshless Carmamunda (Durga), the incessant succession of the flames of blazing fire, the devourer of flesh and blood, the destroyer of all, salutation to you.

14. The Sanskrit text purports as under :

Make obeisance to that benevolent unconquered Hara(Śiva), who is attired in a fresh elephant hide, who has braided his hair with a huge snake and has disfigured his countenance by the hunkfti (nasal pronunciation) of (the sound) kaha kaha : make obeisance to that supremely benevolent Hara, who is (like) the fierce dart, invincible, bearing the crown of skulls, and the destroyer of cupid's pride.

Treatment of Svara

The word kapala literally means the skull bone, a piece of a broken jar, a beggar's bowl, a cup, a jar, etc. Kallinätha explains this name with reference to the first two meanings. Technically, kapala is a modification of a suddha jati from which it is derived. It has the characteristic feature of reflecting the raga as derived from its parent jati, because it bears a close resemblance to it in form. In a way if a jati can be said to be a melodic type giving rise to many raga-s, kapala is a cross section of a particular jati that embodies the sectional features of a particular derived raga. Therefore, kapala is explained by 'K' firstly on the analogy of a broken jar which points out to the jar. Secondly, he relates a mythical story : "Once Lord Siva, while he wandered as a mendicant, was singing in sadji etc. and he was so blissfully absorbed in it that the crescent of the moon on his forehead melted releasing nectar, drinking which the skulls (kapala-s) of Brahma that he was carrying fastened together in a garland around his neck came to life and began to sing along with him; that is why these songs are called kapala-s."

There are seven *suddha jati-s* and correspondingly there are seven *kapāla* songs. Though the chapter is entitled '*Gtti-s*' in accordance with the synopsis (see Section 1) the *Kapāla* and the *Kambala* songs are dealt with to begin with. \searrow

(ii) गीतिलक्षणं, तज्जे दाश्च

वर्णाद्यलङ्कृता गानक्रिया पदलयान्विता ॥१४॥ गीतिरित्युच्यते सा च बुधेरुक्ता चतुर्विधा । मागधी प्रथमा ज्ञेया द्वितीया चार्धमागधी ॥१४॥ संभाबिता च पृथुलेत्येतासां लक्ष्म चक्ष्महे ।

1. मागधी गीतिः

गोत्वा कलायामाद्यायां विलम्बितलयं पदम् ॥१६॥ द्वितीयायां मध्यलयं तत्पदान्तरसंयुतम् । सतृतीयपदे ते च तृतीयस्यां द्रुते लये ॥१७॥ इति त्रिरावृत्तपदां मागघीं जगदुर्बुधाः । (ii) The definition and classification of giti-s: 14c-25

The act of singing¹ embellished by (various) patterns of tonal movement (varna) etc.², and couched in verbal phrases⁸ set in musical speed (tempo)⁴, is called giti. It is said to be fourfold by the enlightened ones⁵. The first is known to be $m\bar{a}gadh\bar{a}$, the second is ardha-m $\bar{a}gadh\bar{a}$, (the third is) sambh $\bar{a}vit\bar{a}$ and (the fourth is) prthul \bar{a} . We shall describe their characteristic features. (14c-16b)

1. Māgadhī

Having sung a verbal phrase (pada) in the first kalā in the slow tempo, and then in the second⁶ the same⁷ along with another phrase in the middle tempo, if in the third they⁸ are sung along with the third phrase in the fast tempo, such (a giti) that thrice repeats a verbal phrase⁹ is called $m\bar{a}g\bar{a}dh\bar{t}$ by the enlightened ones¹⁰. (16c-18b)

The jati songs are meant to be sung in particular giti-s, so the author now introduces this topic and gives first of all a general definition of giti and then goes on to define their particular forms.

Gili is defined primarily to be a gana-kriyd, 'the act of singing' which is moulded and shaped through the use of particular patterns of tonal movement such as ascending, descending, stable and circulatory (i.e. arohi, avarohi, sthdyi and sancari varya-s) and is enriched

- 2. The suffix adi (etc.) is meant to include, according to 'K', the sixty-three alankara-s spoken of in Section 6 ante, such as prasannadi and so on.
- 3. Pada, in this context, is a meaningful word with grammatical terminations. Thus, a pada is not only a word, since it also is qualified to indicate a relation. Pada is therefore more than a word and yet not a sentence. As such, it has been translated as a verbal phrase to distinguish it from a tonal phrase. Technically, pada signifies the verbal structure of melody.
- 4. Laya is tempo, i. e. relative musical speed.
- 5. This refers to the earlier teachers of the subject.
- 6. The second kala.
- 7. The phrase of the first kala.
- 8. That is, the phrases of the first two kala-s.
- 9. Viz. devam.
- 10. The ancient authorities of sanglla-sastra.

^{1.} Gana-kriya in this context is restricted in its connotation to mean an act of singing.

978			Treatm	ent of S	V a ra	
यथा						
	मा	गा	मा	धा		
	वे		वं			
	धनि	धनि	सनि	ঘা		
	दे	वं	হ	द्रं		
	रिग	रिग	मग	रिस		
·		হর		दे		
		2.	- અર્ધ	नागधी	गीतिः	
	पूर्वयोः '	पदयोरध	र्ग चरमे	द्विर्यवो	विते ।।१६।	1
	तवा ऽर्घ	मागधीं	प्राहुः			
Fo	or exam	ple :				
		nā	gā	L	mā	dhā
	L)e			vam	
(i	i) dh		dha	-ni	sa-ni	dhā
	d		van	n	ru	dram
(ii	ii) ri-	-	ri-į	-	ma-ga	ri-sa
	ae	vam	rudi	am	van	de
2.	Ardha-	māgadh	I			
TA.	lhen th	a latte	r half	of the	nrevious1	hada a

When the latter half of the previous¹¹ pada-s (verbal phrases) is sung twice, then it is called ardha-magadhi¹⁹. $(18c \cdot 19a)$

by certain tonal phrases (alankara-s). Furthermore, such melodic activity is accompanied by literary composition and is set in rhythmic patterns of musical speed. Laya (musical speed) is known to be threefold, viz. fast tempo (druta), middle tempo (madhya) and slow tempo (vilambita), (14c-16b)

It has been said that there are four giti-s and here, the author is describing the specific characteristics of each. It may, however, be

12. Literally, half-way magadhi.

			Section 8	· : Giti-s		379
यथा						
	मा	री	गा	सा		
	वे		वं			
	सा	सा	धा	नी		
	वं	হ	द्रं			
	पा	घा	पा	मा		
	द्रं	वं	वे	••		
				द्विरावृत्तप	तां परे ।	
यथा						
	मा	मा	मा	मा		
	दे		वं			
	धा	सा	धा	नी		
	दे	वं 、	হ	द्रं		
	पा	निघ	मा	मा		
	হ	द्वं	वं	दे		
For	example	:				
(i)	mā		rl	gā	sâ	
(::)	De		-	vam		
(ii)	sā. vam		sä ru	dhā <i>dram</i>	ni	
(iii)	pā		dhā	pā	mā	
Oth	dram		van	de		
Othe repeated p		wever (verba) consid l phrases)	er it to . (19b) [.]	consist in o	nce
	example			、	· • • •	•
(i)	mä D-		mā	mâ	mā	
(ii)	<i>De</i> dhâ				_	
(11)	dia de		sā vam	dhā ru	n1 dram	
(iii)	pā		ii-dha	mä	má	
	ru		dram	van	de	

13. Dvirdoyttopada, lit. "the one that has its pada-s (sung) twice."

^{11.} That is, the pada-s of the first and the second kala-s.

3. सम्भाविता गीतिः संक्षेपितपदा भरिगुरुः संभाविता मता । १९।।

ग

यथा—

. . . .

	r .3		
धा	मा	मा	रि
મ		मत्या	
री	गा	सा	सा
वे		वं	
नी	धा	सा	नी
₽		द्रं	
घा	नी	मा	मा
वं		वे	

3. Sambhāvitā :

Sambhāvitā is considered to be with abridged verbal phrases (pada-s) largely¹⁴ (composed) of long syllables. (19cd) For example :

(i)	dhā <i>Bha</i>	må	mā <i>ktyā</i>	ri·ga ¹⁵
(ii)	rl de	gā	sā vam	sà
(iii)	n1 - <i>ru</i>	dhā	sā dram	nI
(iv)	dhā van	. ni	mā de	mā

observed that the fourfold gtti that is described here is, what is called padalrita giti (i. e. the giti based on the verbal structure) which may be distinguished from talasrita giti (i. e. the giti based on tala) and svaraśrita-giti (i. e. the giti based on the tonal structure). The first two will be dealt with shortly in this Section and the last in Chapter II (Raga).

The magadhi giti came into being in the province of Magadha in eastern India and is therefore called magadht as explained by 'K' on the basis of the derivation of the word given by Matanga. Magadhi

Section 8 : Giti-s 38													
4. पृथुला गीतिः													
भूरिलध्वक्षरपदा पृथुला संमता सताम् ।													
यथा—													
	मा गा री गा												
	सु	र	न		त								
	सा	धनि	धा		धा								
	R	र	प	द									
	धा	सा	धा	नी									
	यु	ग	लं										
	पा	निधप	मा	मा									
	স	ण	म	त									
4. <i>I</i>	rthula :												
Prth	ulā, aco	ording	to the	e lear	ned.	has verbal	nhrases						
(pada-s) w	ith man	y shori	syllab	les.	(20a	b)	pricases						
For	exampl	e :			-								
(i)	mä		gā		٢ì	gå							
	su		ra		na	ta							
(ii)	Sā	Ċ	lha-ni		dhā	dhā							
	ha		ra		þa	da							
(iii)	dhā		sā		dhā	nl							
	· yu		ga		lam								
(iv)	pā	ni	-dha-pa	1	mā	má							
	pra		ņa		ma	la							
and other gl each kala is below in the	supposed	to be of	'lour ma	itra s	(unit	h an example s). This is e	in which lucidated						

The first kala is to be sung in the slow tempo, which indicates the rest period ratio of 4:1 with reference to the fast tempo in singing a verbal phrase (pada). In the given example the phrase devam is sung in the first kala in two syllables, de and vam, each of which takes two unit measures (matra.s). In the second kala the phrase rudram is added to the first one (viz. devam) in two syllables,

^{14.} That is, it also admits the use of short syllables.

^{15.} Ad. ed. of S. R. reads : riga (as two matra-s) which seems to be a misprint.

5. तालाश्रिता गोतयः

यथाऽक्षरे युग्मे गुर्वोः प्रथमयोर्यदा ॥२०॥ यता एकैकं चित्रमार्गाहं प्रयुज्य चगणात्मकम् । मात्राभिरष्टभिर्युक्तं दक्षिणे ध्रुवकादिऽऽदिभिः ।।२१।। गीतिमांगधीत्यभिधीयते । प्रयुज्यते तदा ततीयं लधु युग्मस्य च्छगणार्धयूतं यदा ।।२२।। आद्याभ्यामन्तिमाभ्यां च मात्राभ्यां संप्रयुज्यते । ततः प्लुतं सार्धगणयुक्तं कृत्वा प्रयुज्यते ।।२३।। ध्र<u>वकाऽऽविभिरष्टाभिद्विर</u>ुक्तान्त्यद्वयेन च। तदा ऽर्धमागधी ते हे तहत्तालान्तरेष्वपि ।।२४।। वार्तिके पथि । भूरिगुरुंद्वकले संभाविता भूरिलघुर्दक्षिणे पृथुला चतुष्कले मता ॥२४॥ इति प्रथमे स्वरगताध्यायेऽष्टमं गीतिप्रकरणम् ॥८॥

इति श्रोमदनवद्य-विद्याविनोद-श्रोकरणाधिपति-श्रीसोढलदेवनन्दन-निःशङ्कश्वीशार्ङ्कदेव-विरचिते संगीतरत्नाकरे स्वरगताध्यायः प्रथमः ।

5. Giti-s based on tala :

Alternatively, if the initial two guru-s of the namewise $(yath\bar{a}ksara)$ caccatputa¹⁶ $(t\bar{a}la)$, having been employed one by one in the citra marga¹⁷, are converted into ca-gana¹⁸ and ru and dram. Thus, the phrase devam is sung for the second time and the four syllables are sung in four matra-s (units). The number of notes taken in one matra (unit), whether one or two, is immaterial. In the third kala the first and the second phrases are sung along with the additional third, viz. vande which is split into two syllables, van and de. Thus, the first matra of the third kala is sung with the phrase devam, the second with rudram and the third kala is sung with the syllables van and de making for the phrase vande. The third kala being in the fast

17. Citromargarham seems to be the reading of the text available to 'K' as it is evident from his commentary which is supported also by the interpretation presented by 'S'. The Ad. ed. of S. R. reads citramargadi which does not grammatically fit in the verse to be adequately meaningful.

18. That is, each guru to be sung in four matra-s by the vartika marga.

then being provided with eight $m\bar{a}tr\bar{a}$ -s (units) are employed in the daksina marga with dhruvak $\bar{a}^{1\nu}$, etc. then the giti is called magadhi. (20c-22b)

When, the third laghu of the caccatputa²⁰ (tāla) is augmented by half the cha-gana²¹ and is used with the initial

tempo is the quickest in action as well as rest with reference to the first and the second. Also in the third kalā the phrase devam is sung for the third time. In this way, because in this gili a phrase is sung for three times, it is called *trirāvyttapadā*. (16c-18b)

Ardha-magadhi is obviously a modification of magadhi. When the second half of the first two phrases respectively is repeated successively in the second and the third kala-s of magadhi, it becomes ardha-magadhi. The process of its formation is illustrated by an example according to which the first kala is like that of magadhi with the phrase : Devam (de+vam); in the second kala the phrase is rudram (ru+vam); which is preceded by the second half of the the phrase of the first kala, viz. vam, reading on the whole as vam rudram. Similarly, in the third kala the phrase is vande (vam+de) which is preceded by the second half of phrase of the second kala, viz. dram, reading on the whole as dram vande.

However, the author quotes another opinion as well. In this view, just as magadhi is called triraufita, i. e. the one in which a pada (phrase) is sung thrice, so ardha-magadhi is dviraufita, i. e. the one in which the two pada-s (phrases of the 1st and the 2nd kala-s) are sung twice. Accordingly devam is repeated in the second kala and rudram is repeated in the third kala. However, 'K' points out that according to Matanga, some consider the twice-repeated phrases also to be characteristic of magadhi. (18c-19b)

Sambhavita is said to have abridged phrases, by which it is meant that the *pada-s* used are few and far between. Moreover, they consist of long syllables : a syllable is considered to be grammatically long

1st step : Dhruvakā and patitā
2nd step : Dhruvakā, sarpiņī patākā and patitā
3rd step : Dhruvakā, sarpinī, krs yā, padminī, visarjitā, viks iptā,

- patākā and patitā.
- 20. Yathakşara is understood.
- 21. That means, three maira-s.

^{16.} Tugma is caccalpula.

^{19.} Dhruvakā, sarpiņī, palitā, etc. are the names of the actions of hand to be explained in Chapter V. But 'K' gives, the following as pertaining to the three steps spoken of above.

meanment of Svara .

two and the last two $m\bar{a}tr\bar{a}s^{22}$ and if, after that, the pluta (extra long) is augmented by one and half the (said) $gana^{23}$ and is used with the eight $m\bar{a}tr\bar{a}$ -s such as $dhruvak\bar{a}$ and so on³⁴, twice repeating the last two of them²⁵, then it is ardhamāgadhī. (22c-24c)

when it implies twice the effort necessary for pronouncing a short vowel or a consonant with it. There are quite a few conditions that determine this measure of effort which need not be related here. To understand the given example, however, in the first kala of four matra-s (units) and five notes only two syllables are taken, viz. Bha, which is long in view of the succeeding conjunct and ktya which is long by itself The other kala-s are similarly fashioned.

Here, it may be observed that 'S' seems to have a different reading of the portion 19b which leads him to take it as a part of the definition of sambhavita, rather than that of ardha magadht as taken in our text as well as by 'K'. Indeed the text-variant of dviravftapadam pare is recorded in the foot note of the Adyar edition as dviravftapadantare which means: "the one in which a phrase (pada) is sung in the following phrase for the second time" and which is taken by 'S' to be qualifying sambhavita. (19cd).

P_fthula is in contrast with sanbhāvitā; whereas the latter has abridged pada-s with long syllables, the former has many pada-s with short syllables. That is perhaps why Matanga. derives sambhāvitā as that in which the abridgement of pada-s is expected (sambhāvyate) and ptthula as that which is enlarged upon profusion of pada-s; for, ptthulā literally means large or broad. (20ab).

Having described the four types of giti as based on pada (verbal phrases), the author describes them as based on tala; and thus, he deals with talasrita-giti.

Detailed information regarding tala is to be found in the **Taladhyaya**, i. e. Chapter V, but here it is necessary to observe a few things. The three types of caccatputa; viz. ekakala, doikala and catuskala

- 22. The initial two are *dhruvakā* and *sarpiņt* and the last two are *patākā* and *patitā*.
- 23. That means, nine matra-s.
- 24. The eight matra-s of caccalputa, i. e. from dhruvaka to patita.
- 25. In order to occupy the last four (9-12) matra-s.
 - This is based on the references of 'K' in his commentary on the above text.

These²⁶ two may also similarly (be conceived) in other²⁷ tala-s. (24c-24d)

Sambhāvitā is accepted to be with many long syllables in the dvikala (caccatpuța) by the vārtika mārga and pṛthulā is with many short syllables in the catuskala (caccatpuța) by the daksiņa mārga. (25)

Here ends Chapter I of sangita-ratnäkara entitled "Treatment of svara" composed by Śārngadeva who is free from doubt, the son of Śri Sodhaladeva, the faultless reveller of scholarship and the master treasurer.

have already been mentioned. Of these the first one is called *yathakşara* which corresponds in terms of unit measures (*matras*) to those indicated by its name, and that is why it is said to be namewise (*yathakşara*); and its measure is two guru-s followed by a *laghu* and a *pluta* making in all, eight *matra-s*.

Laghu has already been explained as the duration of time required for pronouncing five short syllables; or, as it is alternatively expressed, the duration of time taken by the winking of eyes for five times. Two laghu-s make for one guru. Three laghu-s constitute a pluta.

The laghu is written as (1), the guru as (5), and the pluta as (5') and the last letter of caccalpulal, viz. lah is pluta. So, now it will be seen that the namewise (yathaksara) caccalpula is written SSIS' and has eight matra-s. Matra is another expression for laghu.

Reverting to the text, the first two guru-s have the value of two matra-s each and as such they should, in magadht, be sung in the citra marga in the ckakala caccatputa. Ca-gana, as it will be described in greater detail in Chapter IV, viz. Prabandhādhyāya, is a grouping of four matra-s. So, the second step is to enlarge upon the two initial guru-s so as to enhance their value to four mātra-s each, and thus sing the pada as dvikala by vārtika mārga. The third step is to enhance the value of each of the two initial guru-s to eight matra-s and sing by daksina mārga in catuşkala caccatputa. Thus, the essential feature is the repetition of the initial two guru-s as required by the expression "triravtttapada" and so on. The second step, as described above, is implicit as pointed out by 'K'. (20c-22b)

26. Magadhi and ardhamagadhi,

^{27.} Such as pañcapani and so on.

²⁵

ATEVE IN HISINGAL

Ardha-magadhi distinguishes itself from magadhi in so far as it is more concerned with the latter part of the namewise (yathakşara) caccatputa tala, viz. with the third laghu and the fourth pluta (extra long) out of its four matra-s, viz. SSS' (guru, guru, laghu and pluta).

What is suggested is that, in order to formulate ardha-magadhi, the third matra of the yathaksara caccatputa, which is laghu, be augmented with half of cha-gana, i.e. three matra-s; that is, its value should be increased from one laghu to four (matras). And then having thus increased its value to four matra-s it may be sung with the initial two and the last two (of the eight) matra-s of caccatputa, viz. dhruvaka and sarpint and pataka and patita respectively. This forms the first step as it were.

In the second step the *pluta* that is following the *laghu* is required to be augmented by one and half the *cha-gaṇa*. *Cha-gaṇa* is a grouping of six *mātrā-s*. So, to the three *mātrā-s* of *pluta*, nine more are added, making twelve in all. Of these twelve *mātrā-s*, the first eight are sung with the eight *mātrā-s* of *caccatpuța* in due order, and the last four by repeating the last two *mātrā-s* twice in due order, i. e. with *patākā*, *patitā*, *patākā* and *patitā*. This process forms *ardha-māgadht* as based on *tāla*.

Sambhavita and pithula are conceived on the same lines except that the former is set in dvikala and the latter in the catuskala caccatputa.

This ends the Section on giti-s and also Chapter One constituting Volume I entitled the Svaragatadhyaya. The End

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APPENDIX I

PARALLEL REFERENCES FROM CARAKA AND SUŚRUTA IN THE CONTEXT OF HUMAN EMBODIMENT (PIŅŅOTPATTI)

Caraka & Sangita-Suśruta ratnākara 1.2.23-25 स सर्वगुणवान् गर्भत्वमापन्नः प्रथमे मासि सम्मूच्छितः Caraka Sa. सर्वधातुकलनीकृतः खेटभूतो भवत्यव्यक्तविग्रह: Stha 4.9-11 सदसद्भूताङ्गावयवः । ४१६ हितीये मासि घनः सम्पद्यते-पण्डः पेश्यर्बुदं वा, तत्र पिण्ड: पुरुष:, स्त्री पेशी, म्रर्बुदं नपुंसकम् । ४।१० तृतीये मासि सर्वेन्द्रियाणि सर्वाङ्गावयवाश्च योग-पद्येनाभिनिवंतंन्ते । ४।११ तत्र प्रथमे मासि कललं जायते । ३११८ Suśruta, द्वितीये शोतोष्मानिर्लरभित्रवच्यमानानां महाभूतानां Sa. Stha संघातो घनः संजायते; यदि पिण्डः पुमान्, स्त्री चेत् 3. 18-21 पेशो नपुंसकं चेदर्बुदमिति । ३।१९ ततीये हस्तपादशिरसां पञ्च पिण्डका निर्वतंन्तेऽङ्ग-प्रत्यञ्जविभागश्च सूक्ष्मा भवति । ३।२० चतुर्थे सर्वाङ्गप्रत्यङ्गविभागः प्रव्यक्ततरो भवति गर्भहृदयप्रव्यक्तिभावाच्चेतना धातुरभिव्यक्तो भवति, कस्मात् ? तत्स्थानत्वात्; तस्माद्गर्भश्चतुर्थे मास्य-मित्र।यमिन्द्रियार्थेषु करोति, द्विहृदयां च नारी दोह्वदिनीमाचक्षते । ३।२१ I.2.30cd-32 राजसन्दर्धने यस्या दौहृदं जायते स्त्रियाः । ibid 3.26-34 अर्थवन्तं महाभागं कुमारं सा प्रसूयते ।। ३।२६ दुकूलपट्टकोशेयभूषणादिषु दोहृदात् । अलंकारेषिणं पुत्रं ललितं सा प्रसूयते ॥ ३।२७ आश्रमे संयतात्मानं धर्मशीलं प्रसुयते। देवताप्रतिमायां तु प्रसूयते पार्षदोपमम् ॥ ३।२५ दर्शने व्यालजातीनां हिंसाशीलं प्रसूयते ।। ३।२९

गोधामांसाऽशने पुत्रं सुषुप्सुं धारणात्मकम् । गवां मांसे तु वलिनं सवंक्लेशसहं तथा ॥ ३।३० माहिषे दौहृदाच्छूरं रक्ताक्षं लोमसंयुतम् । वाराहमांसात् स्वप्नालुं शूरं संजनयेत् सुतम् ॥ ३।३१ मार्गाद्विक्रान्तजङ्घालं सदा वनचरं सुतम् ॥ ३।३१ मार्गाद्विक्रान्तजङ्घालं सदा वनचरं सुतम् । समरोद्विग्नमनसं नित्यभोतं च तैत्तिरात् ॥ ३।३२ अतोऽनुक्तेषु या नारी समभिष्याति दौहूर् दम् । शारीराचारशोलं: सा समानं जनयिष्यति ॥ ३।३३ कर्मणा चोदितं जन्तोभंवितव्यं पुनर्भवेत् । यथा तथा देवयोगाद् दौहूर् दं जनयेद्घृदि ॥ ३।३४

I.2.33-39ab पञ्चमे मासि गर्भस्य मांसशोणितोपचयो भवत्यधिक- Caraka, मन्येभ्यो मासेभ्य:, तस्मात्तदा गर्भिणी कार्थ्यमापद्यते Sa. Stha विशेषेण । ४।२१ 4.21-26 षष्ठे मासि गर्भस्य मांसशोणितांपचयो भवत्यधिक-मन्येम्यो मासेम्य:, तस्मात्तदा गर्भिणी वलवर्णहानि-मापद्यते विशेषेण । ४।२२ सप्तमे मासि गर्भः सर्वभावैराप्याय्यते, तस्मात्तदा गभिणी सर्वाकारैः क्लान्ततमा भवति । ४।२३ अष्टमे मासि गर्भश्च मात्तो गर्भतश्च माता रसवाहि-नीभिः संवाहिनीभिर्मुहुरोजः परस्परत आददाते गर्भस्यासंपूर्णत्वात्, तस्मात्तदा गर्भिणो मुहूर्महुर्मुदायुक्ता भवति मुहुर्मुहुश्च ग्लाना ग्लाना तथा गर्भः । तस्मात्तदा गर्भस्य जन्म व्यापत्तिमद्भवत्योजसोऽनवस्थितत्वात्; चैवमभिसमीक्ष्याष्टमं मासमगण्यमित्याचक्षते कुशलाः । ४।२४ तस्मिन्नेकदिवसातिकान्तेऽपि नवमं मासमुपादाय प्रसवकालमित्याहराद्वादशान्मासात्, एतावान्कालः, वैकारिकमतः परं कुक्षाववस्थानं गर्भस्य । ४।२५ एवमनयाऽऽनुपूर्व्याऽभिनिवंतंते **।** कुक्षौ। ४।२६ पञ्चमे मनः प्रतिवुद्धतरं भवति । ३।३४ Suśruta. Śā. Sthā. षष्ठे वुद्धिः । ३।३६ सप्तमे सर्वाङ्गप्रत्यङ्गविभागः प्रव्यक्ततरः । ३।३७ 3. 35-39 अष्टमेऽस्थिरीभवत्योजः, तत्र जातश्चेन्न जीवेन्नि-रोजस्त्वान्नैर्श्वतभागत्वाच्च, ततो वर्लि मासोदनमस्म दापयेत् । ३।३८

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नवमदशमैकादशद्वादशानामन्यतमस्मिन् जायते, अतोऽन्यया विकारी भवति । ३।३९

I. 2. 39 cd-मातुस्तु खलु रसवहायां नाड्चां गर्भनाभिनाड़ी ibid 3. 40 40 ab प्रतिवद्धा, साऽस्य मातुराहाररसवीयंमभिवहति । तेनोपस्नेहेनास्याभिवृद्धिभंवति । ग्रसंजाताङ्गप्रत्यङ्ग-प्रविभागमानिषेकात् प्रभृति सर्वंशरोरावयवानु-सारिणीनां रसवहानां तिर्यग्गतानां धमनीनामुपस्नेहो जीवयति । ३।४०

I. 2. 44 तत्र गर्भस्य पितृजमातृजरसजात्मजसत्त्वजसात्म्यजानि ibid 3. 43 शरीरलक्षणानि व्याख्यास्यामः । गर्भस्य केशश्मश्रु-लोमास्थिनखदन्तसिरास्नायुधमनीरेतः – प्रभृतीनि स्थिराणि पितृजानि, मांसशोणितमेदोमज्जहृन्नाभिय-कृत्ल्लीहान्त्रगुदप्रभृतीनि मृदूनि मातृजानि, शरीरो-पचयो वलं वर्णः स्थितिर्हानिश्च रसजानि, इन्द्रियाणि ज्ञानं विज्ञानमायुः सुखदुःखादिकं चात्मजानि, सत्त्व-जान्युत्तरत्र वक्ष्यामः, वीर्यमारोग्यं वलवर्णों मेघा च सात्म्यजानि । ३४४३

 I.2.54-55
 सात्त्विकास्तु—आनृ शंस्यं संविभागरुचिता तितिक्षा ibid 1.19

 सत्यं धमं आस्तिवयं ज्ञानं युद्धिर्मेधा स्मृतिर्घृ तिरन

 भिषङ्गश्च,

 राजसास्तु—दुःखवहुलताऽटनगोलताऽघृतिरहङ्घार

 आनृतिकत्वमकारुण्यं दम्भा मानो हर्षः कामः ऋाधश्च;

 तामसास्तु—विषादित्वं नास्तिक्यमधर्मशीलता बुद्धे

 निरोधोऽज्ञानं दुर्मेधस्त्वमकर्मशीलता निद्रालुत्वं

 चेति ११९९

 खादयश्चेतना षष्ठा घातवः पुरुष: स्मृतः ।
 Caraka, Sã.

 —च०, शा० स्था० १११५ Sthā. 1.15

 गुणाः शरीरे गुणिनां निर्दिष्टाश्चिह्नमेव च । अर्थाः

 शब्दादयो जेया गोचरा विषया गुणाः ।
 ibid 1.30

I.2.56 cd. पड्घातवः समुदिता 'लोक' इति शब्दं लभन्ते; Caraka,Sa. तद्यथा—पृथिव्यापस्तेजो वायुराकाशं ब्रह्म चाव्यक्त- Stha. 5.4-5 मित्येत एव च षड्घातवः समुदिता 'पुरुष' इति शब्दं लभन्ते । ४।४ तस्य पुरुषस्य पृथिवी मूर्तिः, आपः क्लेदः, तेजोऽ भिसन्तापो, वायुः प्राणो, वियच्छुषिराणि, ब्रह्माऽ न्तरात्मा, यथा खलु ब्राह्मो विभूतिर्लोके'''''। ५।५×

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दशोदकस्याञ्जलयः शरीरे स्वेनाञ्जलिप्रमाणेन यत्तत् ibid 7.16 प्रच्यवमानं पुरीषमनुवध्नात्यतियोगेन तथा मूत्रं रुधि-रमन्यांश्च शरीरघातून्, यत्तत् सर्वंशरीरचरं वाह्या त्वग्विर्भात, यत्तु त्वगन्तरे प्रणमतं लसीकाशब्दं लभते, यच्चोष्मणाऽनुबद्धं लोमकूपेम्यो निष्पतत्स्वेदशब्द-मवाप्नोति, तदुदकं दशाञ्जलिप्रमाणं, नवाञ्जलयः पूर्वस्याहारपरिणामधातोयतं रस इत्याचक्षते, अष्टी शोणितस्य, सप्त पुरीषस्य, षट्श्लेध्मणः, पञ्च पित्तस्य, चत्वारो मूत्रस्य, त्रयो वसायाः, द्वौ मेदसः, एको मज्जः, मस्तिष्कस्यार्धाञ्जलिः, शुक्रस्य तावदेव प्रमाणं, तावदेव श्लेष्मणश्चीजस इत्येतच्छरीरतत्त्व-मुक्तम् । ७।१६

I.2. 75-77 तत्रायं शरीरस्याङ्गविभागः । तद्यथा—द्वी वाहू, Caraka, ab द्वे सक्थिनी, शिरोग्रीवम्, अन्तराधिरिति षडङ्गमङ्गम् । Sa. Stha. ७।५ 7-5

ibid 77 ab शरोरे षट् त्वचः, तद्यथा—उदकघरा त्वग्वाह्या, ibid 7-4 द्वितीया त्वगसृग्धरा, तृतीया सिध्मकिलाससम्भवा-धिष्ठाना, चतुर्थी दद्रुकुष्ठसम्भवाधिष्ठाना, पञ्चम्यल-जीविद्रधिसम्भवाधिष्ठाना, षष्ठी तु यस्यां छिन्नायां ताम्यत्यन्ध इव च तमः प्रविशति, यां चाप्यधिष्ठा-यार्ह्लेषि जायन्ते पर्वसु कृष्णरक्तानि स्थूलमूलानि दुष्टिचकित्स्यतमानि चेति षट् त्वचः, एताः षडङ्ग-धरीरमवतत्य तिष्ठन्ति । ७१४

> तस्य खल्वेवंप्रवृत्तस्य गुक्रशोणितस्याभिपच्य- Susruta, मानस्य क्षीरस्येव सन्तानिकाः सप्त त्वचो भवन्ति । Sa. Stha तासां प्रथमाऽवभासिनी नाम, या सर्ववर्णानवभासयति 4. 3-5 पञ्चविधां च छायां प्रकाशयति, सा व्रीहेरष्टादशभाग-प्रमाणा सिध्मपद्मकण्टकाधिष्ठाना; द्वितीया लोहिता नाम, तृतीया श्वेता नाम, चतुर्थी ताम्रा नाम, पञ्चमी वेदिनी नाम, षष्ठो रोहिणी नाम, सप्तमी मांसघारा नाम । ४।३

कला खल्वपि सप्त संभवन्ति धात्वाशयान्तर-मर्यादा: । ४।४

यथा हि सार: काष्ठेषु छिद्यमानेषु दृश्यते । Susruta, Sa. तथा धातुर्हि मांसेषु छिद्यमानेषु दृश्यते । ४११ Stha 4.5

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- I.2. 81-82 वाताशयः, पित्ताशयः, श्लेष्माशयो, रक्ताशयः, ibid, 4.5 ab आमाशयः, पक्वाशयो, मूत्राशयः, स्त्रोणां गर्भा-शयोऽष्टम इति । १।७
- ibid 88-90 मांससिरास्नाय्वस्थिजालानि प्रत्येक़ं चत्वारि ibid, 5,11 चत्वारि, तानि मणिवन्वगुल्फसंश्रितानि परस्पर-निवद्धानि परस्परसंश्लिष्टानि परस्परगवाक्षितानि चेति, येगेवाक्षितमिदं शरीरम् । ४।११
- ibid 92 सङ्ख्वचातस्तु दशोत्तरे द्वे शते; तेपां शाखा ibid, स्वष्टषष्टिः, एकोनषष्टिः कोष्ठे, ग्रीवां प्रत्यूर्ध्वं 5. 28-32 त्र्यशीतिः । ५।२८

त एते सन्धयोऽष्टविधाः—कोरोल् खलसामुद्ग-प्रतरतुन्नसेवनीवायसतुण्डमण्डलगङ्खावर्ताः । तेषा-मङ्गुलिमणिवन्धगुल्फजानुकूर्परेषु कोराः सन्धयः, कक्षावङ्क्षणदर्शनेषूल् खलाः, अंसपीठगुदभगनितम्वेषु सामुद्गाः, ग्रीवापृष्ठवंशयोः प्रतराः, शिरः कटीकपालेषु तुन्नसेवन्यः, हनोरु गयतस्तु वायसतुण्डः, कण्टह्र्दय-नेत्रक्लोमनाडीपु मण्डलाः, श्रोत्रश्टङ्गाटकेषु शाङ्घा-वर्ताः । तेषां नामभिरेवाकृतयः प्रायेण व्याख्याताः । ४।३२

- I.2. 94 ab अस्थ्नां तु सन्धयो ह्येते केवलाः परिकीर्तिताः । ibid, 5. 33 पेशीस्नायुसिराणां तु सन्धिसङ्ख्या न विद्यते ।। ११३३
- ibid 98cd. अपत्यपथे चतस्रः-तासां प्रसृतेऽम्यन्तरतो हे, मुखा- ibid, 5. 51 श्रिते वाह्ये च वृत्ते हे, गर्भच्छिद्रसंश्रितास्तिस्नः, शुक्रातंवप्रवेशिन्यस्तिस्र एव । शित्तपक्वाशययोर्मध्ये गर्भशय्या, यत्र गर्भस्तिष्ठति । ४।४१

ibid. शङ्खनाम्याकृतियोंनिस्त्र्यावर्ता सा प्रकीतिता । ibid, 5.

99-100 तस्यास्तृतीये त्वावर्ते गर्भशय्या प्रतिष्ठिता ॥ ५।५५ 55-56 यथा रोहितमत्स्यस्य मुखं भवति रूपत: । तत्संस्थानां तथारूपं गर्भशय्यां विदुर्बुधाः ॥ ५।५६

ibid

[•] See Suśruta Śā. Sthā. 1.20

ibid 107 उर्घ्वंगाः शब्दस्पशंरूपरसगन्धप्रश्वासोच्छ्वास-ibid, 9.4 जृम्भितशुद्धसितकथितघदितादीन् विशेषामभिवहन्तः शरीरं धारयन्ति । तास्तु हृदयमभिप्रपन्नास्त्रिधा जायन्ते, तास्त्रिशत् । तासां तु वातपित्तकण्ठशोणित-रसान् द्वे द्वे वहतस्ता दश शब्दरूपरसगन्धानष्टाभि र्गृह्णीते, द्वाभ्यां भाषते, द्वाम्यां घोपं करोति, द्वाभ्यां स्वपिति, द्वाभ्यां भाषते, द्वाम्यां घोपं करोति, द्वाभ्यां स्वपिति, द्वाभ्यां प्रतिवुघ्यते, द्वे चाश्रुवाहिण्यो, द्वे स्तन्यं स्त्रिया वहतः स्तनसंश्रिते, ते एव शुक्रं नरस्य स्तना-म्यामभिवहतः, तास्त्वेतास्त्रिशत् सविभागा व्याख्याताः । एताभिरूध्वं नाभेष्दरपार्श्वपृष्ठोरः स्कन्धग्रीवाबाहवो धार्यन्ते याप्यन्ते च । ६।४

I.2.110-113 उध्वंगमास्तु कुवंन्ति कर्माण्येतानि सर्वश्र: । ibid, 9.5-8

अघोगमास्तु वक्ष्यामि कमं तासां यथायथम् ॥ ९१५ अघोगमास्तु वातमूत्रपुरीपणुक्रातंवादिन्यधो वहन्ति । तास्तु पित्ताशयः व्याख्याताः ॥ ९१६ अधोगमास्तु कुर्बन्ति कर्माण्येतानि सर्वशः । तियंग्गाः संप्रवक्ष्यामि कर्म चासां यथायथम् ॥ ९७ तियंगानां तु चतसृणां धमनीनामेकंका शतघा सहस्रधा चोत्तरोत्तरं विभज्यन्ते तास्त्वसङ्ख्येयाः, ताभिरिदं शरीरं गवाक्षितं विवद्धमाततं च, तासां मुखानि रोमकूपप्रतिवद्धानि, यैः स्वेदमभिवहन्ति रसं चाभितपं-यन्त्यन्तवंहिश्च, तरेव चाभ्यङ्गपरिषेकावगाहालेपन-वीर्याण्यन्तः शरीरमभिप्रतिपद्यन्ते त्वचि विपक्वानि, तेरेव च स्पर्शं मुखममुखं वा गृह्णति, तास्त्वेताश्च-तस्रो धमन्यः सवाङ्गिगताः सविभागां व्याख्याताः ॥ ९।६

ibid 116 b नव स्नायुशतानि, सप्त सिराशतानि, द्वे घमनीशते, Caraka, चत्वारि पेशीशतानि, सप्तोत्तरं मर्मशतं, द्वे पुनः सन्धि- Sa.Stha7.15 शते, त्रिशत्सहस्राणि नव च शतानि षट्पञ्चाशत्कानि सिराधमनीनामणुशः प्रविभज्यमानानां मुखाग्रपरिमाणं, तावन्ति चैव केशध्मश्रुलोमानीत्येतद्यथावत्संख्यातं त्वक् प्रभृति दृश्यम्, अतः परं तक्यम्; एतदुभयमपि न विकल्प्यते प्रकृति-भावाच्छरीरस्य । ७।१५

APPENDIX II

THE RELATIONSHIP OF THE PSYCHOPHYSICAL CENTRES TO MUSIC

The author has specifically mentioned the particular psychophysical centres and their particular petals that are positively or negatively related to the cultivation of musical arts. The following chart illustrates this relationship and also presents the whole picture at a glance.

Psychophysical Centres as Related to Music

S. No.	Name of Psy- chophysical Centre	of	S. No. of Petals	dant upon the	Relation to Music
1.	Foundational Cycle (<i>Ādhāra-cakra</i>)	4	1 2 3 4	Supreme bliss Spontaneous happiness Heroic joy Divine unity	Non-conducive
2.	Self-abiding Cycle (Svādhişţhāna- cakra)	6	1 2 3 4 5 6	Courtesy Curiosity Cruelty Freedom from pride Stupor Disrespect and distrust	do
3.	Navel Cycle (Maņipūraka- cakra	10	1 2 3 4 5 6 7 8 9 10	Dreamless sleep Graving Jealousy Fault finding nature Bashfulness Fear Hatred Stupidity Impropriety Dejection	do

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A DESCRIPTION OF THE REAL PROPERTY OF THE REAL PROP

4. Cycle of the	12	1	Freedom from					9	The basic urge
unmanifest			fickleness	Conducive					for living
(Anāhata-cakra)		2	Clear thinking	Non-conducive				10	Devotion
		3	Repentance	Non-conducive	2			11	Satisfaction
		4	Норе	Destructive				12	Cleverness
		5	Light	Non-conducive					<u> </u>
		6	Worry	Destructive	7.	Cycle of the	3	1	Sattva
		7	Desire for ward-			supreme Comn	nand	2	(purity) Rajas (acti-
			ing off evil	Non-conducive		(Ajnā-cakra)		4	vity)
		8	Equanimity	Conducive				3	Tamas (dull-
		9	Vanity	Non-conduciv e					ness)
		10	Mental insta-			•		_	D
			bility	Destrucțive	8.	The cycle of	6	1	Dreams Palatal
		11	Discernment	Conducive		the mind		2	enjoyment
		12	Will	Conducive		(Manaś-cakra)		3	Olfactory
									sensation
5. Cycle of purity	16	1	Praņava	Non-conducive				4	Perception of form
(Visuddhi-cakra)		2	Udg i tha	>>				5	Touch
,		3	Humphada	,,,				6	Sound
		4	Vaşat	>>	9.				
		5	Svadhā	23	. 9	Cycle of the	16	1	Grace
		6	Svāhā	3 3		moon		2	Forgiveness
		7	Namalı	33		(Soma-cakra)		3	Straightfor-
		8	Nectar	Conducive				0	wardness
		9-15	The seven tone	S				4	Forebearance
			sadja etc.	• •				5	Detachment
		16	Poison	Destructive				07	Patience Cheerfulness
								8	Mirth
6. Lalanā-cakra	12	1	Arrogance	13	1			9	Horripilation
		2	Haughtiness	Non-conducive				10	Tears of fixed
•		3	Affection					••	gaze
		4	Sorrow	Destructive				11 12	Štability Profundity
		- 5	Agony	33				12	
		6	Greed	Non-conducive				14	Purity of
		7	Disenchantmer		1				heart
		8	Emotional exc	**				15	
			ment	3 3				16	One pointed- ness
				77					11000
					A				

10. Thousand 1000 Immortality Most conducive petalled Lotus (Sahsrāra-cakra)

It may be observed from the above chart that of the ten psychophysical centres mentioned. only four are said to be related to the cultivation of musical arts, wholly or partly, positively or negatively. In the terms of the chart, the centres or the petals not related to music positively or negatively are described as non-conducive. The centres or petals that are helpful in the advancement of musical arts are described as conducive and those of them that are harmful are described as destructive. This has been done in view of the author's statement (vide 144c-145b) that concentration on any other centres or petals is not helpful.

The first three centres are not related to advancement in music, probably because these centres are related to gross manifestation (cf. Sir John Woodroffe's views cited in the comments on 124c-126b ante). The next three centres viz. the cycle of the unmanifest, the cycle of purity and Lalana cakra are partly related to musical arts. These three centres are located in the heart, the throat and the back of the neck which exactly correspond (except for the last that corresponds roughly) to the situation of the three registers of human voice, viz. the heart, the throat and the head. The next three centres are related to the mind and its powers and functions, while the last one viz. Sahasrāra is the gateway to supreme bliss and immortality; and consequently, concentration on this centre is considered to be wholly beneficial to the cultivation of musical arts. Thus, six of the ten centres are non-conducive, three partly conducive and partly nonconducive and one wholly conducive.

It will be interesting to observe the fruits of concentration on particular petals as conducive and destructive in terms of the positive and the negative. The positive and the negative fruits of concentration related to Music.

SI. No	Psychophysical Centre		Positive fruits of concen- l tration	of	Negative fruits of concen- tration	
4	Cycle of the unmanifest	1	Freedom from fickleness	4	Hope ¹	
	(Anāhata-cakra)	8	Equanimity	6	Worry	7/12
		11	Discernment	10	Mental	
		12	Will		instability	7
5	Cycle of purity	8	Nectar			
	(Visuddhī-cakra)		Seven Tones	16	Poison	9/16
5	Lalanū-cakra	10	Devotion	1	Arrogance	e 5/12
		11	Satisfaction	4	Sorrow	
				5	Agony	
10	Sahsrāra					full

Shorn of its metaphorical framework, the whole scheme seems to suggest that for the cultivation of musical arts one should concentrate on the positive qualities and avoid paying attention to the negative qualities as shown above. This abstract makes the whole idea intelligible.

^{1.} Hope has been described as destructive perhaps because hope and disappointment go together.

Appendix III

formulation and adequate comprehension. It is quite in this context that Bharata's statement—"Tones (svara-s) are organised into the grāma through jāti-s and śruti-s" becomes significant. Thus what was spontaneously perceived in the jāti-gāna was tonal movement i. e., the svara-s, which after an analytical investigation were organised into grāma on the basis of their śruti-content. So, we find that the concept of śruti was formed as a means of precisely measuring, relating or comprehending pitch relations spontaneously perceived as tones.

That the tones are spontaneously perceived is affirmed by all the musicologists right from Matanga who says, "Because it is perceptible by itself, it is called *svara*".⁸ Since delightfulness was already implied as the essential quality of tone, Śārngadeva, improving upon the definition, as it were, made it explicit when he said : "Immediately consequent upon *śruti*, creamy and resounding, the sound that delights the listener's mind by itself, is called *svara*."⁸

The essential fact is that whereas *svara* is given to spontaneous perception, *sruti* is intellectually conceived subsequently for organising the *svara-s* into a perceptible scale called grama. This has been done on the basis of certain observable facts; but since those facts can be observed only by trained ears, the question whether this concept has any objective validity or not always keeps on hanging fire. Another reason for the controversy raised on this point is the fact that the concept is not almost as universal as the concept of tone obtaining in the various systems of music in the world today. It is obviously peculiar to Indian Music, specially the ancient Indian music; for, even in India there

२ -जातिभिः धुतिभिष्त्वेव स्वरा ग्रामत्वमागताः ।

N. S., K. ed. 20.5.

३--स्वयं यो राजते यस्मात् तस्मादेव स्वरः स्मृतः ।

Brhaddest.

३ ए----श्रुत्यनन्तरभावी यः स्निग्घोऽनुरणनात्पकः ॥२४॥ स्वतो रंजयति श्रोतुचित्तं स म्वर उष्णते ॥२५॥

Sangita-ratnākara I. 32.4-25

APPENDIX III THE CONCEPT OF SRUTI AS RELATED TO SVARA*

The concept of *sruti* as related to that of *svara* forms the very basis of understanding the grama-murchana system, as originally propounded by Bharata, expounded by Matanga and represented by Abhinavagupta, Sarngadeva and the subsequent writers such as Kumbhā etc. It seems that historically the perception of svara is prior to that of sruti, and that the concept of sruti was necessitated by the need for an adequate apprehension, analysis and appreciation of tonal phenomenon, both for the sake of understanding and for an effective and creative endeavour. Music is as old in the history of civilization, as speech, if not older; and its significance in the development of human personality from prehistoric times is of no less importance; for, the revelation of the Vedic hymns was almost immediately accompanied with the need for their employment in the sacrificial form, giving rise to Sāmagāna. Tracing the origin of Nātysastra, Bharata states that the creator "extracted the pāthra (verbal text) from the Rgveda, gita (music) from the Sāmaveda, abhinaya (action) from the Yajurveda and Rasa (aesthetic delight) from the Atharvaveda". And it was in the perspective of the origin of dramatic arts, that the phenomenon of music and dance was first comprehended. Consequently, aesthetic delight was recognised at the outset as the distinguishing characteristic of musical sound. Therefore, when a scientific study of music was first made, prevalent practice and the natural perception of tone on the basis of delightfulness formed the primary data for investigation, systematic

• Paper read by Dr. R. K. Shringy at the annual conference of the Madras Music Academy, Madras, Dec., 1972.

यजुर्वेदादमिनयान् रसानर्थवणादपि ॥१७॥

Nāţya Śāstra Ka shi Ed. 1.17.

are people who think that they can easily do away with the concept of *śruti* altogether and yet be able to explain the structure and the technique of modern Indian music. Strange as it might seem, *śruti* does not find any significant mention in its technical sense in the Pauranic tradition. Grāma, mūrcchanā, jāti and svara etc. constitute musicological terminology for the Vāyu Purāņa, Mārkaņdeya Purāņa and the Vişņudharmottara Purāņa.⁴ This would suggest that there had ever been two different traditions of musicologists with reference to the concept of *śruti*—one considering it as the pivot of grāma-mūrcchanā system and the other ignoring it completely.

This does not, however, mean that the concept of *sruti* has absolutely no relevance to Indian music today, but this view rather points out the necessity of a fresh inquiry into the true significance of the concept of *sruti*; and this can be done by investigating into the relationship of *sruti* and *svara*, and thereby determining the true function of *sruti* in the grāma system. Such an enquiry may enable us to reassess the value of the concept in its proper perspective.

Indeed, a lot of work has been done to explain and to reinterpret the relevance and validity of the concept of *sruti* in the context of Indian music, in the recent past; but, the <u>subject is so abstruse that any attempt from a different angle</u> can always be considered helpful. The subject is indeed multidimensional, and there are many intriguing questions challenging our attention. For example, we find that the authors of medieval India have allocated different number of *sruti-s* to the same *svara-s*; or, there is enough scope for studying the outlook of ancient writers on music such as Bharata, Dattila and Matanga etc. to formulate the right opinion regarding the *sruti-s* being equal or unequal. These questions are quite formidable and merit an independent inquiry; and moreover, all the secondary questions, such

v-Alain Danielou, Texts des Purana Sur la Theorie Musicale.

as these, can be satisfactorily answered only when the fundamental concepts are properly understood. It is, therefore, intended here to bring out the significance of the concept of *śruti* as related to *svara* by studying its function and its relationship to *svara* as expounded in the traditional works of Indian music. We shall first try to arrive at a tentative definition of the two terms and then arrive at a conclusion by investigating their relationship.

1. The concept of Sruti:

The word *śruti*, as it is well-known, is derived from the Sanskrit root *śrut*, to hear, etymologically, by Mataňga⁵ as well as Śārňgadeva.⁶ "*Śrūyate-iti-śruti* i. e., that which is heard is *śruti*. Now, what is it that is heard? Does it imply that whatever is audible, musical or unmusical, is *śruti*? or does *śruti*, in whatsoever general terms it might be defined, have a particular signification? Bharata speaks of *śruti* in the context of the constitution of *grāma*; so we have to look to Mataňga and Śärńgadeva, to answer this question; for, even Abhinavagupta echoes Bharata when he says : "There are two *grāma-s*, *şadja-gārma* and *madhyama-grāma;* and twentytwo *śruti-s* are established here, in one tone-cycle (i. e., *saptaka*)".⁷ Incidentally, it may be noted that he too considers that the function of *śruti* is to constitute *grāma*.

Matanga seems to present the concept of *sruti* in a systematic way, for obviously in his time this was perhaps the burning issue in the field of musicology. He begins with the literal meaning of the term; '*Srūyante-iti srutayali*', the *sruti-s* are so called because they are heard. So primarily, *sruti* to him, denotes sound, the object of hearing. Then he refers

५--- श्रवणार्थस्य घातोः किन्द्रत्ययं च सुरांधिते ।

श्रुतिशब्दः प्रसाध्योऽयं शब्दत्तः कर्मसाधनः :

Brhaddeśī ·

६-अवणात् श्रुतयो मताः

Saugita-ratnakara 1.3.8. ७---अष द्वी ग्रामी पङ्जग्रामी मध्यमग्रामश्चेति । अत्राश्रिता द्वायिशतिश्रुतयः स्वरमण्डलसाधिताः ॥

Abhinavabhāratī, Baroda Ed. p. 15.

Treatment of Svara

to the fact that *sruti* is either considered to be one or many, implying that it all depends on the connotation of the term; for, the word sruti was quite differently understood by different scholars or schoolmen as it appears from his discussion with regard to the number of śruti-s.

To Matanga, therefore, sruti, as undertood in its primary sense of 'the audible sound', is one only." And he supports his contention by quoting Viśvävasu who says that, "because it is perceptible by the sense of hearing, sound only can be śruti.¹⁰ But Viśvāvasu docs not seem to be limiting the connotation of the word *sruti* to its primary meaning; rather he lends it a meaning which makes the word technical in the field of musicology; for, he says that sruti is twofold according to as it is associated with the standard notes and the intervening (antara-svara-s) ones.11 But those who consider the *śruti* to be threefold either on the ground of three registers or threefold perceptual insensitivity as quoted by Matanga¹² do not seem to make an advance on the one sruti theory from the musicological point of view, since the first opinion makes no important distinction as the very same notes are involved in all the three registers; and the second view relates to the quality of voice i. e the timbre and not the pitch. However, the theory referred to by him, that considers sruti to be fourfold on the basis of the different physiological conditions makes some advance upon the threefold sruti view in so far as it affects the whole structure of

ibid.

ibid.

ibid.

८-सा चंकानेका वा। Brhaddest. ९--- तत्रैकंव ध्वतिरिति । ibid. ११ -- सा चंकापि द्विधा जेया स्वरान्तरविभागतः ॥ १२-केचित् स्थानत्र(य)योगात् त्रिविधां श्रुति प्रपद्यन्ते । अपरे त्विन्द्रियवैगुण्यात् त्रिविधां श्रुति मन्यन्ते । इन्द्रियवैगुण्यं च त्रिविधं सहजं दोपजमभिधातजं चेति ।

musical sound. But yet it does not seem to depart absolutely from the primary meaning of the term sruti and therefore fails to accord distinct individuality to different sruti-s.

Bharata has spoken of three types of tones_viz., having four sruti-s, three sruti-s, and two sruti-s, in the context of wind instruments with reference to the technique of playing upon them.¹⁸ Presumably on this basis, some flutists, according to Matanga, consider sruti-s to be nine only. We are not presently so much concerned with the actual and true number of *stuti-s* as with the true significance and the actual function of *sruti-s*. It is obvious that to the flutists only nine *sruti-s* were real, for they could produce the notes of the octave with this understanding. Therefore, once again we find that *sruti-s* are conceived in order to produce the svara-s accurately and for obtaining their modified forms such as antara and kakali referred to earlier in the two-sruti view. But, however, apart from the technique of the wind instruments, Bharata himself implies twentytwo sruti-s in a scale; for there are three notes with four *sruti-s*, two with three and two with two sruti-s each in sadjagrāma.

It is interesting in this context to consider the view of Dattila whose work is believed to be earlier than Matanga and who is considered to be a close follower of Bharata. He says : "Higher and higher notes in the high (tara-sthana) (register) are on the vinā lower and lower. Thus the differences of sound are called sruti because of their auditive perceptibility. With some of these (sruti-s) one sings in all songs. Those (sruti-s), however, which have become notes will be considered here."14 Thus, auditive perceptibility of differences in

१३--- डिकत्रिकचतुष्कास्तु ज्ञेया वंशगताः स्वराः ।

and the second s

(कम्प्यमानार्धमुक्ताख्र व्यक्तमुक्तास्तर्थव च ॥)

Natyasastra (G. O. S.) 3.2.

१४--- उत्तरोत्तरतारस्तु वीणायामघरोत्तरः । इति व्वनि विद्येषास्ते अवणाच्छ्रतिसंझिता ॥९॥ तेम्य कांभ्रिदुपादाय गीयन्ते सर्वगीतिषु । षान्द्रियन्ते च मे तेषु स्वरत्यमुपलम्यते ॥१०॥ T pitch torms the essential characteristic of the tonal perception called *śruti* by the ancients. And then it is also notable that in a given scale of notes, it is some of these very minute intervals that are recognised as *svara-s*. This view enlightens us regarding the relation of *śruti* and *svara*.

Then Matanga quotes Kohala, who is even earlier than Dattila. He affirms that sruti-s are twentytwo in number, also considered as sixtysix by some : or otherwise, they are infinite.¹⁵ Thus, as far as the difference of pitch as determined by auditive perceptibility is concerned, the one prominent view held by distinguished musicologists was that of twentytwo *śruti-s*; because all other views are either partially applicable or not based on pitch-value, and therefore non-musical in their orientation. The view of sixtysix sruti-s is only a projection of the former and is obviously superficial. Alternatively, if *iruti* is a just perceptible difference in pitch, there can hardly be any limit to such sounds. So, the view maintaining an infinity of *sruti-s* called for a need for a clear and precise definition of the term in the essential sense of perceptible difference in pitch. Of course śruti-s cannot be considered infinite, for the function of *śruti-s* is to constitute the musical scale and to determine the position of the seven tones in it; so if the *sruti-s* have to discharge this function, their number has to be limited; then only they can be used as units of a group.

But, how is it that the *sruti*-interval came to be perceived ? i. e. in other words, does the name *sruti* correspond to an objective perception ? Kumbhā, who is in a way, a commentator of Sārngadeva, has pointed out two different aspects of the connotation of the word *sruti*. He says, the word *sruti* can be derived from the root *srut*, either as an abstract noun referring to listening, or as a verbal noun, referring to the object of listening. In other words, *sruti* 24-affaulta àtagatatfa (23ai:) 24 and 24 and 25 and 26 and 2

षट्वष्टिभिन्नाः खलु केचिदासामानन्त्यमेव प्रतिपादयन्ति ॥

also denotes a perceivable difference of pitch. This was derived in the first instance in the form of the difference of pitch-value between the Pancama of Sadja-grāma and that of Madhyama-grāma by Bharata.¹⁶ And this difference of auditive perception was designated by him as Pramana-śruti. In other words, in the perception of that difference in pitch value, he found a proof of the perceptible existence of a tonal factor that constituted tones or determined their position in the scale. Consequently, Kumbha, echoing Abhinavagupta, points out that the function of sruti is to distinguish inbetween the grāma-s. Matanga perceives in this difference of pitch a measure of tonal content called *sruti*. Thus the discovery of the pramana sruti set the ball rolling, and it was found that all the tones were actually to be arrived at through two, three or four perceptible factors, bringing the total number of such tonal factors to twentytwo in a scale. Regarding the objective validity of the concept of sruti Dr. B. C. Deva has referred to a laboratory experiment conducted by Ellis, in England in 19th Century. The experiment proved that, "the number of rough steps of pitch which can be distinguished in an octave are about 22;"" and also "that the difference in any sensation which can be perceived depends on the sensation already present in a person." The effect of this (accumulated sensation) was known to our ancients, or was taken into account in formulating the concept of śruti. Abhinavagupta calls it "Kramika-śrutijanitasamskāra-višesa." Sārngadeva is also aware of this process, when he himself poses the question, "Indeed if such sruti-s as the fourth etc. are admitted to be the cause of svara-s how can the other *sruti-s* such as third etc. be considered as their cause ?", to which he answers, "Such a sruti whether fourth or third etc., is determined only with reference to

१६---अथ प्रयोजनं तावत्त्रोच्यते श्रुतिरूपणे ।

विभागो ग्रामयोर्यस्मादेतत् ज्ञानेन जायते ॥९०॥

Sangita-raja II. 1.1.90.

123.

99-B. C. Deva, Psycho-acoustics of Music and Speech, 1967; pp. 122-

Brhaddeśi.

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the preceding *śruti-s*; therefore, they too constitute the cause of *svara-s*.¹¹⁸

Following Matanga in spirit, Sarngadeva too considers the *sruti-s* to be the modifications of musical sound i. e. nāda.¹⁹ So, śruti for him is essentially a musical sound. We can see the crystallisation of the concept. Another evidence of this process is to be found in Sarngadeya's statement to the effect that nada arising from the navel is differentiated through twentytwo nadi-s, situated in the region of the heart, the throat and the head. It is not understood in what sense he uses the term nadi. In the Ayurvedic terminology, it is generally identified with veins, arteries or nerves etc. So, if by nadi-s he implies observable objects, then such twenty-two nadi-s have yet to be identified by physiology. However, if he implies some yogic meaning, then obviously it would ever remain a subjective phenomenon. What is quite apparent is an attempt at fixing the number of *sruti-s* at twentytwo on a tangible basis to set the controversy at rest beyond all doubt. And perhaps he did succeed in his endeavour to do so; since no subesequent writer seems to have challneged him. After him twentytwo *sruti-s* are almost taken for granted.

It is noteworthy that Bharata enumerates the concept of *śruti* in the context of subjects related to vina, but not among those related to the human instrument.^{19a} This implies that *śruti* is one of those subjects of musicology that can be well demonstrated and best exposed exclusively with the aid of vina. Therefore, Sārngadeva's graphic description of twentytwo nadi-s in order to show the genesis of

१८—ननु श्रुतिश्चतुर्थ्यादिरस्त्वेवं स्वरकारणम् ॥२५॥ त्रयादीनां तत्र पूर्वासां श्रुतीनां हेतुतां कथम् । ब्रूमस्तुर्यातृतीयाऽऽदिः श्रुतिः पूर्वाभिकाङ्क्षया ॥२६॥ निर्धार्यतेऽतः श्रुतयः पूर्वा अप्यन्न हेतवः ।

Sangita-ratnākara I. 3. 25-27.

• १९---तस्य (नादस्य) द्वाविंशतिभेदाः ।

ibid I. 3.8. 999---Nätyaśāstra 28. 14-15 (Baroda Ed.) Appendix III

śruti-s seems to highlight the Tantric influence on musicology, the seeds of which can be found even in Matanga. Tantra combined Yoga, and the concept of *nāda* is closely related to the philosophy of Tantra and the practice of *Mantra-yoga*. Probably this can explain Śārngadeva's hypothesis.

Although, as already stated, Viśvävasu and Matanga both consider 'Dhvani' i. e., mere 'sound' to be the essential content of śruti, Śārngadeva considers nāda i. e., musical sound to be the substance. However, it is worthwhile to note that he does not consider each *sruti* to be a musical sound; what he implies is that, sruti-s do give rise to soura-s that are essentially delightful, resonant etc. This implication is clearly brought out by his commentator, Kallinatha while he comments on his definition of sruti-viz... "Śravanāt śrutayo matah" i. e., "sruti-s are so called because of) their auditive perceptibility. He says : "Auditive perceptibility is common to such extensive sounds as well as svara and tana etc., that are essentially resonant apart from *sruti*; so therefore, here indeed *sruti* signifies only the sound that is produced by the blow of wind etc. in the very first instant, which is free from resonance."10 Thus, we find that *sruti* is conceived as a factor of musical sound in the form of just perceptible difference of pitch, that is free from resonance. So according to Śārngadeva, as interpreted by Kallinātha, "śruti signifies a pitch value which contributes to the musicality of tone, and is yet by itself devoid of tonal colour". Now, since he recognises twentytwo such pitch values, as indeed they have been recognised by Bharata, Dattila, Matanga and Abhinavagupta before him, it is also implied that the audible musical sound free of resonance, that a *śruti* is, should be capable of individual perception and recognition, and therefore of being

दीर्घदीर्घस्यापि घ्वनेविद्यते, तथा यत्र मारुताथाहत्यनन्तरोत्पन्नप्रथमक्षणवर्तीं श्रवणमात्र-योग्यघ्वनेरेव श्रुतित्वमिति ।

Sangita-ratnākara p. 67 (Adyar Vol. I).

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reproduced; for otherwise they cannot be employed consciously. This leads us to the question what the significance of *śruti* is with reference to *svara*. But before one can investigate that, one must be clear about the concept of *svara*.

To sum up the deliberation regarding the concept of *sruti*, it may be concluded that, "*sruti* is that audible musical sound which is free from resonance and is capable of being individually perceived, recognised and reproduced." It also follows that there are twenty two such *sruti-s* in a given scale which are the same in all the three registers.

This very conclusion is corroborated by the process of Catulysāraņā initiated by Bharata, reshaped by Matanga and pedantically expounded by Śārngadeva. So also Kumbhā has defined very clearly the threefold function of the fourfold string-movement called Catuly-sāraņā. He says, "The delimitation of the number of *śruti s*, graduation of pitch with reference to tones and the comprehension of $k\bar{a}kal\bar{i}$ etc. (constitute) the functions of the string-movements $(s\bar{a}ran\bar{a}s)$.²¹ The process need not be restated here; but it confirms, by actual demonstration, the number of *śruti-s* are musical sounds just audible.

2. The concept of Svara

The concept of *svara* does not confront us with much difficulty; probably, because of the universal recognition of the tones, and also due to the inherent qualities that distinguish it. It has already been pointed out that the concept of *svara* was as naturally formulated as spontaneously it was perceptible. Dattila, as already pointed out, has said that some of the *śruti-s* are considered as *svara-s*. If this is read in consonance with Bharata's concept of three types of tones constituted by four, three and two *śruti-s*¹⁵ we are led to

२१----श्रुतीयत्तापरिच्छेदस्तारतम्यं स्वराश्रयम् । काकल्यादिपरिज्ञानं सारणानां प्रयोजनम् ॥११५॥

Sangita--raja II. 1.1.115.

think that some of the *śruti-s* attain the position of *svara-s*. Thus, although no categorical difference is conceived between *śruti* and *svara*, it yet remains to be defined in what way they are different, or perhaps they are neither categorically different nor even identical.

Sārngadeva has told in a peculiar way, how the svara-s come into being, He says, "From out of the *sruti s* arise the svara-s",²² and this may be read alongwith his statement that all the *sruti-s* pertaining to a particular svara are responsible for its manifestation.¹⁸

Obviously he does not imply that *stuti-s* are the cause and *svara-s* their effect: the cause having ceased giving room to the effect, and the cause preceding the effect. He seems to suggeest that *svara-s* arise by the cumulative effect brought forward from the preceding *svara-s* to the 'note*sruti*' i. e., the *sruti* that becomes the *svara*; in other words, by *samskāra-pradāna* i. e. by the inheritance of the residual effect. It is notable that *svara-s* arise out of *sruti-s* in the groups of two, three and four; but they do so only in groups, in other words, no single *sruti* can become or produce a *svara*.

In fact, Särngadeva's statement is rather vague in so far as it does not pronounce the relationship obtaining between svara and śruti, and also because it is capable of being interpreted variously. One can roughly interpret that, as *śruti-s* give rise to svara-s, they are the cause; or for example, one can say that svara-s are different from *śruti-s*, being their product; This however involves the whole question of the nature of relationship in svara and *śruti*, which we shall deal with presently.

Sarngadeva defines svara, detailing its different characteristics—"Immediately consequent upon *śruti*, creamy and resounding, the sound that delights the listener's mind

Sangita-ratnäkara I. 3.23.

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२२-श्रुतिम्धः स्युः स्वराः

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So, we have two types of *stuti-s*, the resounding *stuti-s* and the unresounding *stuti-s*. R. Sathyanarayan in his paper entitled 'Sruti, the Scalic Foundation' identifies these two types with *svaragata* and *antaragata śruti-s* of Viśvāvasu.²⁵ But, it would be technically more accurate to identify the states attrictly as states to the state and the technically more accurate to identify the blishing a proper understanding of the relationship of *stuti* and *svara*.

Delightfulness indeed is related directly to resonance that brings about spontaneous perceptibility; and therefore, the tonality of the notes is primarily in resonance. Matanga derives the word *svara* from the Sanskrit root $R\bar{a}jr$, to shine, with the prefix *sva* (itself), meaning that which shines by itself⁹²⁶ i. e., which is spontaneously perceptible and needs no other means to manifest it. He then defines *svara* as delightful sound²⁷ and cites Kohala in his support to the effect that "colourful sound is known as tone."²⁸ So we have spontaneous perceptibility, delightfulness and resonance (i. e the overtones, the sound vibrations immediately following the note-*śruti*), and softness as the four essential elements, aspects, or dimensions of *svara*.

Now the question is, how many of these effects are shared by *śruti*? Spontaneous perceptibility, resonance and delightfulness are positively denied to it, while softness may be attributed to it since it has musical sound for its content. Then, how do these attributes manifest themselves, when svara-s are said to arise from *śruti-s*? One explanation is Sanskāra-pradāna i. e each *śruti* transmits its residual effect to रश्-Sangeet Natak, Śruti the Scalic Foundation--No. 17. p. 62. २६--राज् दीप्ताविति धातो: स्वशन्दपूर्वकस्य च । स्वयं यो राजते यस्मात् तस्मादेश स्वर: स्मृत: 1 Brhaddeśi.

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२७--- रागजनको ध्वनिः स्वरः उच्यते ।
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२८--- व्वनीरक्तः स्वर स्मृतः ।

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ibid.
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ibid.

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by itself is called *svara*." Resonance, softness and self-sustained deligtfulness are the essential features of *svara*.

It is also notable that the two commentators of Sarngadeva harbour a difference of opinion with respect to the first character of the tone Kallinatha thinks that in case of

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srutyanantarabhävi (immediately consequent upon the *sruti*) the term *stuti* refers to that particular *stuti* which is capable of resounding into note, and which is technically called *svarasthāna*. Simhabhūpāla, however, would consider the first *sruti* bereft of resonance as *sruti* and the fourth *sruti* giving a rise to resonance, a *svara*.²⁴

However, the suffix 'bhāvî' in this expression is suggestive of possibility and refers to possible resounding vibrations of a *śruti* and therefore precludes any interpretation to the effect that every *śruti* can resound or be a *svara*. The difference of opinion between the two commentators leads us to two theories.

- (i) That *svara* manifests itself as the resounding vibration of the fourth *sruti* of *sadja*, and therefore *svara* can be said to be the effect of *sruti* and is therefore to be conceived as different from it.
- (ii) That the fourth *sruti* of *sadja* is itself *svara*, since it is capable of resounding.

To Simhabhūpāla, there are four distinguishable sounds, the first three being devoid of resonance and the fourth one being capable of it. Therefore, the resounding *sruti*, for him, is not quite different from *svara*.

२३—श्रुत्यनन्तरभावी, श्रुतेश्चतुर्थूयादेर्माहताद्याहत्युत्पन्नप्रथमघ्वनेरनन्तरं भाग्याविर्भवनशीस: S. R. p. 82.

२४---श्रुत्यनन्तरेति । श्रुतरनन्तरं भवतीति श्रुत्यनन्तरभावी । प्रथमतन्त्रूयामाहतायां थो व्वनिरनुरणनकाून्य उत्पद्यते स श्रुतिः, यस्तु ततोऽनन्तरमनुरणनरूपः श्रूयते । स स्वरः । ibid.

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ing between the genus and the species.³⁰ Thus, the identity of *śruti* and *svara*, in this view, is based on the same source of perception and is illustrated through the relation of the general and the particular. Obviously, this view is absurd on the face of it, since all the objects of one and the same sense cannot be so related. Matanga rather points out that, since *śruti* and *svara* are two different concepts and are related as the supporter and the supported, the foundation and the structure, the relation of identity cannot be established.³¹

(ii) Resultant :

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If sruti and svara, being made of the same material, cannot be related in identity, then perhaps the sruti-s can be taken as the cause of svara-s, and svara as the result of sruti. This view implies a relation of cause and effect, the effect being different from the cause. Matanga illustrates the point by the analogy of a pot being produced from mud with the help of a rod.³² Mud is considered to be the material cause and the rod to be the efficient cause of the pot. Now, it is a well-known fact that the material cause coexists with its effect, and Matanga argues that sruti-s cannot be conceived as producing svara in this sense as srutis do not coexist with svara⁸³; i. e., in other words, svara manifests only after the sruti has ceased to be. This contention justifies the inference derived by Kallinātha that tonality lies in the resonance of the

३०-विशेषस्पर्शं घून्यत्वाच्छुवणेन्द्रियग्राह्यता । स्वरश्चत्योस्तु तादात्म्मं जातिव्यक्तिरिवानयोः ॥३१॥ Br. D. ३१--नानाबुद्धिप्रसाघ्यत्वात् स्वरश्रत्योस्तु भिन्नता । आश्रयाश्वयिभेदाण्च तादात्म्मं जातिव्यक्तिरिवानयोः ॥३१॥ ibid ३२--स्वराणां श्रुतिकार्यत्वमिति केचिद् वदन्ति हि । मृत्तिण्ण्डदण्डकार्यत्वं घटस्येह यथा भवेत् ॥३३॥ ibid. ३३--कार्यकारणमावस्तु स्वरश्वत्योर्न सम्भवेत् । कार्येषु विद्यमानेषु कारणस्योपलम्भणात् ॥४०॥ ibid.

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the next and the attributes of svara arise as a result of the cumulative effect of all the *srutis* of a note climaxed by the 'note-sruti'. Thus, we may conclude that even though no single sruti can manifest by itself the attributes of svara, they are never-the-less produced by them cumulatively. Svara is therefore neither identical with, nor different from sruti. But svara can however be identified as the sum-total effect of the sruti-s of which it is constituted; in other words, a number of *srutis* together produce the effect which is called svara; or otherwise, a group of *śruti-s* in temporal sequence manifests svara. In that sense, tonality may be conceived as inherent and latent in the srulis, which manifests itself according to the manner of their grouping, just like the atoms coming together to form into a molecule. Each sruti may thereby be considered to be charged with the power potency of tonality.

Our ancients have already considered the question of relationship between *sruti* and *svara* thoroughly; and it will be worthwhile to examine critically the views put forth by different schools.

3, The relation of Svara and Sruti :

Matanga relates five different views with respect to the relation of *struti-s* to *svara-s* in the following verse :—

"Of the *struti-s* (as related to *svara-s*) they characterise (the relation) as identity, appearance, resultant, transformation and manifestation."²"

(i) Identity :

The contention of this view is that, since there is no need for any spacial tactile relation for perceiving the two, both *śruti* and *svara* being perceptible through the sense of hearing, they are essentially identical like the relation obtain-

२९---तादात्म्यं च विवर्तित्वं कार्यत्वं परिणामिता ।

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note-*sruti*. Thus, *sruti* and *svara* cannot be related as cause and effect.

(iii) Appearance

If *sruti* and *svara* cannot be related as cause and effect, it is obvious that *svara* is not a product at all; and yet the phenomenon of *svara* is there : Can we therefore say that *svara* is only a projected image of the *sruti* just as face is reflected in the mirror?³⁴ The face reflected in the mirror is merely an appearance and has no existence of its own, being the image of the object outside the mirror; but, *svara* is perceptible by itself; *svara* therefore belongs to the same order of reality as *sruti*. Matanga, therefore, concludes that this view does not accord with facts; for, if a *svara* is taken to be a projection of *sruti* it cannot in any way be different from it essentially and moreover, the perception of *svara* would become illusory;⁸⁵ whereas it is observed in fact that *svara* is categorically different from *śruti*.

As a matter of fact the appearance theory is based on the Vivartavāda of Advaita Vedānta which is concerned with explaining the fact of phenomenal world as a whole; whereas the perception of *sruti* and *svara* is essentially relative and empirical and cannot therefore be explained in terms of the relationship of the absolute and the relative. However, the essential feature of Vivartavāda is that it explains change without admitting any modification in substance. This would accord with Sudhākara's view that the note-*sruti* itself becomes manifest as *svara*, so that *svara*, though appearing to be different from *sruti*, is yet no different from it in substance. But, Matanga seems to consider the change involved to be substantial as he contributes to the transformation theory.

३४- नराणां न मुखं यद्वद् दर्पणेषु विवर्तितम् ।		
प्रतिभाति स्वर (स्त) इच्छुतिष्येव विवर्तितः ॥३२॥	D -	n
३५ यदमाणि विवर्तत्वं श्रुतीनां तदसंगतम् ।	Bŗ.	υ.
विवर्तन्वे स्वराणां दि आस्तिज्ञानं प्रसज्यते ॥३९॥		

(iv) Transformation :

"No doubt" says, Matanga, "Sruti-s undergo a substantial transformation in the form of svara, as milk is transformed totally to form into curds."** Obviously, in this view, svara is considered to be essentially different from sruti. It is only the protagonists of arambhavada i. e. the Naivayikas who admit the effect to be different from an inherent cause (i. e. Samavāyikāraņa) which is the same as the material cause. Others admit the effect to be different from an efficient and aggregative (samyoga) cause Here Matanga seems to be advancing the view that sruti and swara are in Samavaya relation, for sainyoga, a more aggregate of scuti s, cannot produce svara, as pointed out by Kumbhā. The sruti-s have to be in a particular order of succession in order to produce a svara. Moreover, we cannot have an aggregate of sruti-s like a bundle of threads, since they always occur in a temporal sequence. The samavaya relation implies that "the effect inheres in the material cause as a quality may be said to do in a substance. The insistence that produced things are not only in time and space but also abide in drayas is noteworthy."37 If, therefore, soura-s are conceived to be inherent in the sruti-s, they could as well be called the manifestation of sruli-s

(v) Manifestation :

Transformation implies the capacity to change, or in other words, a latent possibility. When the latent becomes active, the effect is called its manifestation. So, Matanga declares that, "the seven tones called *sadja* etc. are ever manifested by the *śruti-s* like a lamp manifesting the objects concealed in darkness."³⁸ Thus, what is implied in this view is that the *svara-s* exist in their own right and are highlighted

अम्घकारस्थिता यहत् प्रदीपेन घटादयः ॥३५॥ Brhaddest.

३६--स्वरता तत्समूहस्य सुतरामप्यसंगता ॥१३६॥

Sangita-rāja II 1.1.136. ३७—Hiryanna—The Outlines of Indian Philosophy; p. 239, (1970 ed.) ३८—पड्जादय: स्वरा: सप्त व्यज्यन्ते श्रुतिभिः सदा ।

Appendix III

matter of fact, *sruti* and *svara* are no absolute entities and both have musical sound i. e., $n\bar{a}da$ as their substance. So, there is no difference as far as their substance is concerned. Therefore, it will be irrelevant to conceive of any substantial change taking place in-between them. $N\bar{a}da$, as modified into twentytwo forms called *sruti-s* variously crystallises to appear as seven tones. Therefore, *sruti-s* arising into different groups in temporal sequence give rise to selfperceptible tones. Since *sruti-s* are not substantially different from *svara-s*, any attempt at relating them as cause and effect will be irrelevant. To understand the true significance of this relation, one must not lose sight of the fact that fundamentally we are dealing with *nāda*. *Sruti* and *svara* are only two different forms of *nāda*, related as the digits of the same figure, every digit contributing to the formation of the figure

in a spatio-temporal sequence.

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Dr. B. C. Deva's definition that, "Sruti-s are <u>idditive</u> measures of pitch relations in music,"³ seems to highlight the functional aspects of the relation of *śruti* and *svara*. Aspects of this relation can be defined, but no definition would perhaps be adequate; for *śruti* and *svara* are related as the constituent parts integrated by a temporal sequence into the dynamic whole, and are neither different from nor identical with each other.

R. C. Deva, Phycho acoustics of Music & Speech p. 121.

Treatment of Svara

by the *śruti-s*. This viewpoint is however rejected by Kumbhā on the ground that it implies co-existence of the manifester and the manifest, which is in contradiction with the observed fact.

Kumbhā has discussed this relation from the point of view of almost all the schools of Indian philosophy including the Buddhists, but without going into smaller details; what is observed is that all these theories are applied to determine the relation of *śruli* and *svara* on the basis of change, for all these are the theories of causation attempting to explain the phenomenon of change. The concept of change is fundamentally twofold-one view is that reality is a flux, a perpetual change, and the other view is that reality is eternal; the former view does not in effect admit any cause-effect relation: for it holds the dissolution of one whole to be the creation of another whole, while the latter view admits this relation. The first view is held by the Buddhist and the other is held by the orthodoxy of Hindu Philosophers, in one form or another. The Buddhist view has to be rejected for it precludes the study of all relations; the Hindu view is represented by three important viewpoints viz., i) that creation implies a substantial change, ii) that creation implies transformation or manifestation of the inherent or iii) that creation represents the appearance of the real. The last of these views cannot probably be applied to explaining the relations within the empirical field. So, we are left with only two alternatives viz., that of substantial change and transformation or manifestation.

The theory of substantial change implies that *śruti-s* are evolved into *svara-s*, while that of transformation implies that *svara-s* are involved into *śruti-s*. This analysis resolves the problem. There seems to be no categorical difference in the two viewpoints that describe the same relation in different terms, from the two different ends. Therefore, the utility of bringing in these theories for explaining the relations of *svara* and *śruti* can as well be questioned. As a

with the sibilants, the Roman providing the same letter for

all the three, for in that case only the order of Devanagari

serine the has been taken into consideration.

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71 पाडवोडुविते क्वापि 281 4 पाडवोडुविते द्विष्ट: 341 149 पाडिजकामध्यमाभ्यां तु 273 173 पाड्जो गान्धारिका तद्धत् 274 121 पाड्जो गान्धारिका तद्धत् 273 121 पाड्जो गान्धारिका तद्धत् 273 121 पाड्जो गान्धारिका तद्धत् 273 130 पाड्जो च नन्दयन्त्यान्ध्री 276 130 पाड्जो च नन्दयन्त्यान्ध्री 276 130 पाड्जो च नन्दयन्त्यान्ध्री 279 137 पाड्जो वदगीतताक्षादि 328 134 पाड्जो वत्पञ्चपाण्यादि 311 79 पाड्जो वत्पञ्चपाण्यादि 311 79 पाड्ज्या इव कपालं तत् 371 पाड्ज्याधोनां तु सप्तानां 289 72 पाड्जघार्पभी च गान्धारी 260 193 स 296 संक्षेपितपदा भूरि 380	58	पाडवौडुवयोः स्थातां	331
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ERRATA+

• Misprints of diacritical marks are overlooked.

450		Treatment of Sva	га
Pege No.	Line No.	Printed as	To be read as
288	1	nyds	nyāsa
297	14	auduaa	auduva
307	22	ag•ri	ga-ri
	24	ag-ri	ga-ri
310	30	ādava	şādava
312	11	pa-ri-a	pa-ri-ga
313	28	it-ith	it-with
339	9	ঘা	पा
340	13	i nl	ni
346	17	री	री'
349	13	पा, तरिंग	पा …परिंग
	17	ग	गा
350	7	92	ነቘ
357	5	नीं नीं	नो' नी'
371	8	गम्य''''	गायन्त्र०
375	4	सरसग चर्म	सरसगजचर्म ०
383	15	(ru+vam)	(ru+dram)
387	28	अलं का रेषिणं	अलंकारीपणं
403	32	आन्द्रियन्ते च मे	बाद्रियन्ते च ये
406	20	subese-	subse
410	30	धुतेझतुर्थूयादे०	ञ्चते स्रतुर्थ् यादे०
	32	प्रयमतन्त्रूयाम०	प्रथमत ल्त्र्याम ०
415	1	Transformatton	Transformation

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